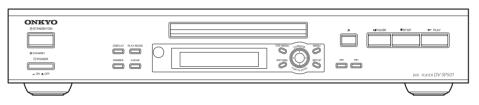
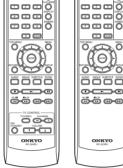
Ref. No. 3766 072003

## **ONKYO** SERVICE MANUAL

## **DVD PLAYER** MODEL DV-SP501





ON TAXON DESCRIPTION OF TAXON



RC-523DV

ONKYO

### Black, Silver and Golden models

BMDD1N, BMDC1N	120V AC, 60Hz
BMUP2P, SMUP2P	230-240V AC, 50Hz
BMUS4P, BMUT3P,	
GMUK3P, GMUR6P,	110-240V AC, 50/60Hz
GMUT3P, SMUS4P	

## SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK 

ON THE SCHEMATIC DIAGRAM AND IN THE PARTS LIST ARE CRITICAL FOR RISK OF FIRE AND ELECTRIC SHOCK. REPLACE THESE COMPONENTS WITH ONKYO PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL.

MAKE LEAKAGE-CURRENT OR RESISTANCE MEASUREMENTS TO DETERMINE THAT EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.



## **SPECIFICATIONS**

Video system		North American model: Standard NTSC Other models: PAL/AUTO	
Region code		North American model: 1, European model: 2, Australian and South American models: 4, Asian model: 3, Chinese model: 6	
Laser		Semiconductor laser, wavelength 650 nm (DVD), 780 nm (CD)	
Frequency response	DVD linear audio	4 HzĐ20 kHz @ 48 kHz sampling ate 4 HzĐ44 kHz @ 96 kHz sampling ate	
	CD audio	4 HzĐ20 kHz	
Signal-to-noise ratio (digital audio)		106 dB	
Audio dynamic range (digital audio)		96 dB	
Harmonic distortion (digital audio)		0.008%	
Wow and Futter		Below measurable level (±0.001% (W. PEAK) or less)	
Operating conditions	Temperature	5° to 35° C (41° F to 95° F)	
	Installation	Install horizontally	
Video outputs	COMPONENT VIDEO (Other than European models)	Y: 1.0 V (p-p), 75 ohm, negative sync, RCA/phono x1 PB/PR: 0.7 V (p-p), 75 ohm	
	AV CONNECTOR (European model only)	0.7 V (p-p), 75 ohm , Scart x1	
	S VIDEO (S-Video)	Y: 1.0 V (p-p), 75 ohm , negative sync, 4-pin mini DIN x1 C: 0.286 V (p-p), 75 ohm	
	VIDEO (composite video)	1.0 V (p-p), 75 ohm , negative sync, RCA/phono x1	
	OPTICAL	-22.5 dBm, optical connector x1	
Audio outputs	COAXIAL	0.5 V (p-p), 75 ohm , RCA/phono x1	
	ANALOG	2.0 V rms, 470 , RCA/phono x1	
	Power supply	North American model: 120 V AC, 60 Hz Other models: 100 - 240 V AC, 50/60 Hz	
General	Power consumption	15 W	
	Power consumption in Standby mode	North American model: 1.6 W Other models: 2.5 W	
	Weight	3.3 kg (7.3 lbs.)	
	Dimensions (W x H x D)	435 X 81 X 307 mm (17-1/8" X 3-3/16" X 12-1/16")	
		<u> </u>	

Specifications and features subject to change without notice.

#### **SERVICE PROCEDURES-1**

### PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs a laser. Therefore, be sure to follow carefully the instructions below when servicing.

#### **WARNING!!**

SERVICE WARNING: DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION, BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICKUP BLOCK.

#### **Laser Diode Properties**

Wavelength: 650/780nm (DVD/CD)

#### WARNING

### **WARNING:**

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

#### **CAUTION:**

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.











The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

#### LASER WARNING

This unit contains a semiconductor laser system and is classified as a "CLASS 1 LASER PRODUCT". So, to use this model properly, read this Instruction Manual carefully. In case of any trouble, please contact the store where you purchased the unit. To prevent being exposed to the laser beam, do not try to open the enclosure.

#### **CAUTION:**

VISIBLE LASER RADIATION WHEN OPEN AND INTERLOCK FAILED OR DEFEATED. DO NOT STARE INTO BEAM.

#### **CAUTION:**

THIS PRODUCT UTILIZES A LASER. USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

The label on the right is applied on the rear panel except for USA and Canadian models.

"CLASS 1 LASER PRODUCT"

1. This unit is a CLASS 1 LASER PRODUCT and employs a laser inside the cabinet.

ADVARSEL

VARNING

2. To prevent the laser from being exposed, do not remove the cover. Refer servicing to qualified personnel.

LASER BEAM CAUTION LABEL

WAVE LENGTH:650nm MAX.LASER POWER:0.5mW

最大レーザー出力: 0.5mW

### SERVICE PROCEDURE

#### 1. Replacing the fuses

This symbol located near the fuse indicates that the fuse used is show operating type, For continued protection against fire hazard, replace with same type fuse, For fuse rating, refer to the marking adjest to the symbol.

Ce symbole indique que le fusible utilise est e lent.

Pour une protection permanente, n'utiliser que des fusibles de meme type. Ce demier est indique la qu le present symbol est apposre.

# e. Ce demier est indique la qu le present symbol est apposre. REF. NO. PART NO. DESCRIPTION El 252252 or 16A TL/T ST2 MDD> MDC>

<MDD> : North American model <MDC> : Canadian model

### **SERVICE PROCEDURES-2**

#### 2. Safety-check out

(Only U.S.A. model)

After correcting the original service problem perform the following safety check before releasing the set to the customer Connect the insulating-resistance tester between the plug of power supply cord and terminal GND on the back panel. Specifications: More than 10M ohm at 500V

## **INITIALIZING**

Factory-shipped condition.

Connect the power cord to inlet terminal.

Push button "ON" (Mechanical SW). Lighting the LED condition.

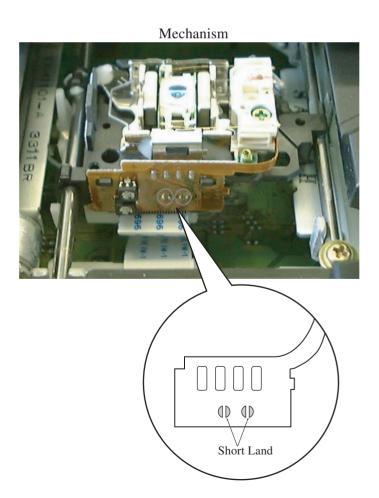
Press the [STOP] and [STANDBY] same time with NO DISC condition.

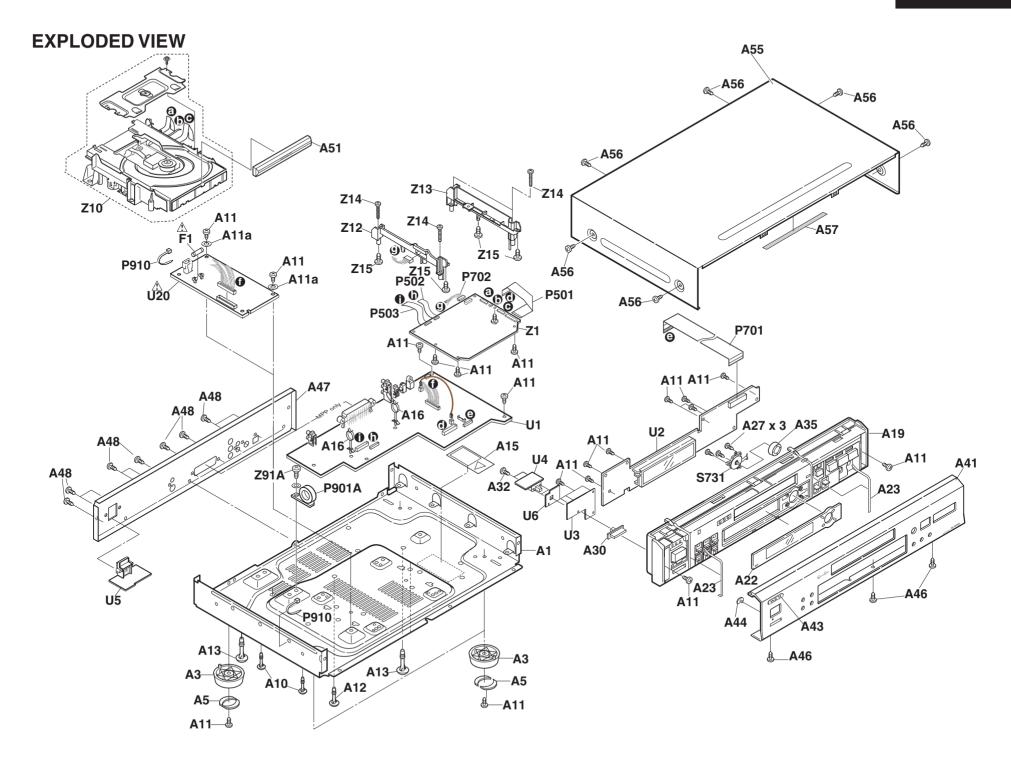
Push button "STANDBY".

Pull out the power cord.

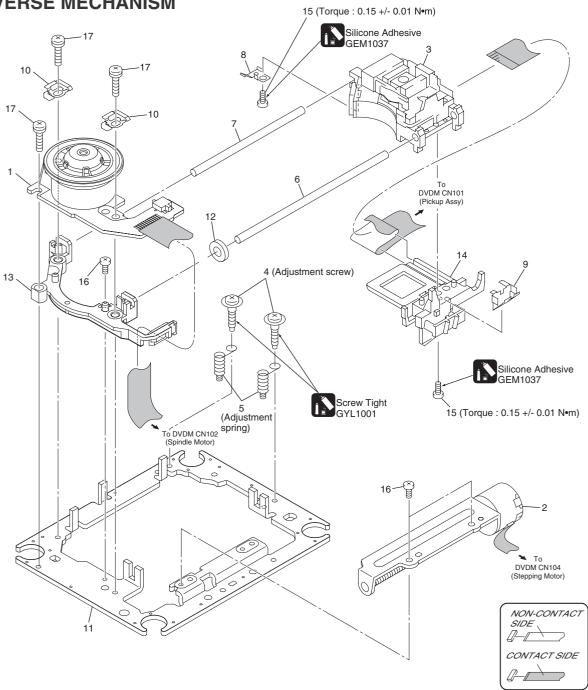
## REMOVE THE SOLDER OF LASER DIODE SHORT

When replace the mechanism or DVD main PC board. Shorting the solder of Shot-circuit land. (2 positions)





## EXPLODED VIEW TRAVERSE MECHANISM

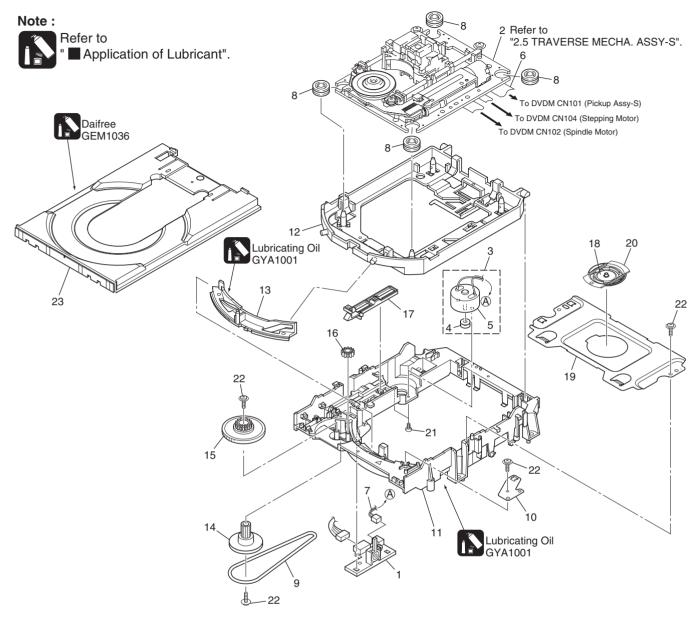


## **TRAVERSE MECHA ASSY parts List**

Mark No.	<u>Description</u>	Part No.	Mark No.	<u>Description</u>	Part No.
1	Spindle Motor	VXM1099	9	Joint Spring	VNC1019
2	Stepping Motor	VXM1101	NSP 10	Support Spring	VNC1020
3	Pickup Assy-S	OXX8005	11	Mecha.Chassis	VNE2248
4	Skew Screw	VBA1080	12	Damper Sheet	VEB1335
5	Skew Spring	VBH1335	13	Spacer	VNL1913
6	Guide Bar	VLL1514	14	Joint 03	VNL1949
7	Sub Guide Bar	VLL1515	15	Tapping Screw	OBA8016
8	Leaf Spring	VNC1023	16	Screw	BBZ20P050FZK
			17	Screw	PMA26P100FMC

## **EXPLODED VIEW / PARTS LIST**

### **LOADING MECHANISM**



### **LOADING MECHA ASSY parts List**

Mark No.		<u>Description</u>	Part No.
NSP	1	LOAB Assy	_
	2	Traverse Mecha. Assy-S	VXX2871
	3	Loading Motor Assy	VXX2872
	4	Motor Pulley	_
	5	Motor	_
	6	Flexible Cable (24P)	VDA1945
	7	Connector Assy 2P	VKP2253
	8	Floating Rubber	VEB1351
	9	Belt	VEB1330
	10	Stabilizer	VNE2253
-	11	Loading Base	VNL1917
-	12	Float Base DVD	VNL1918
-	13	Drive Cam	VNL1919
	14	Gear Pulley	VNL1921
	15	Loading Gear	VNL1922
-	16	Drive Gear	VNL1923

Mark No.	<u>Description</u>	Part No.
17	SW Lever	VNL1925
18	Clamper Plate	VNE2251
19	Bridge	VNE2252
20	Clamper	VNL1924
21	Screw	JGZ17P028FMC
22	Screw	801530
23	Tray	VNL1920

NSP: Not service parts

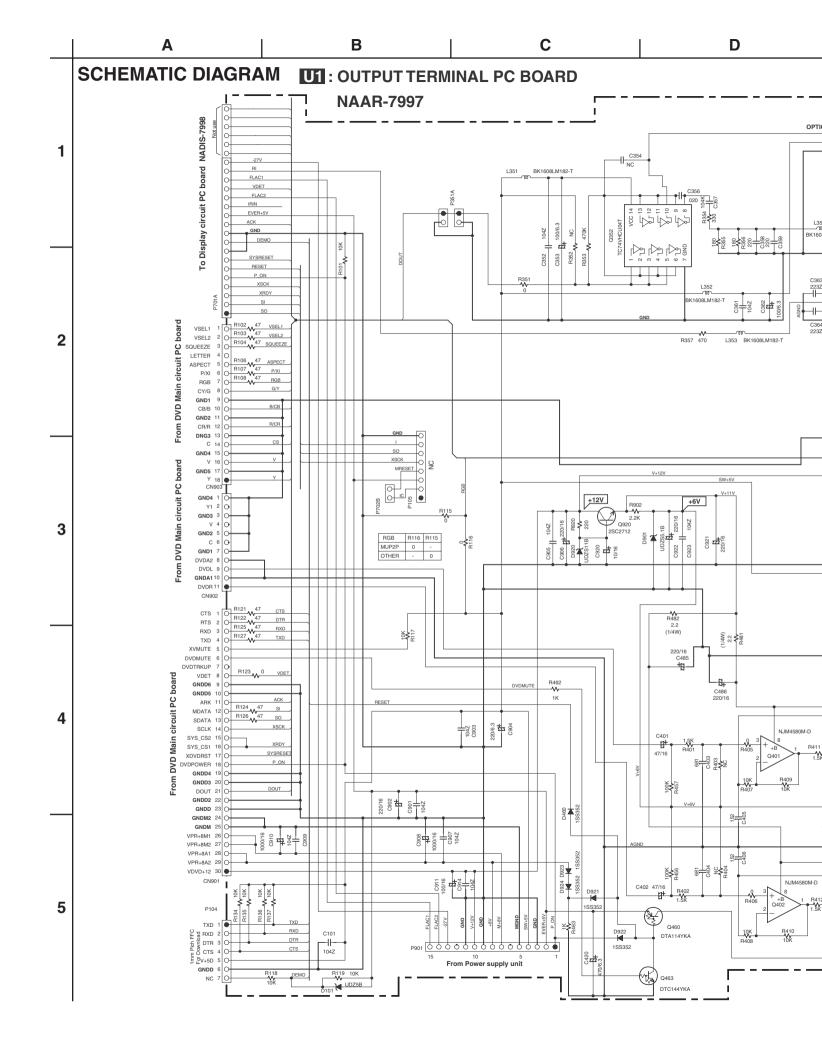
Н

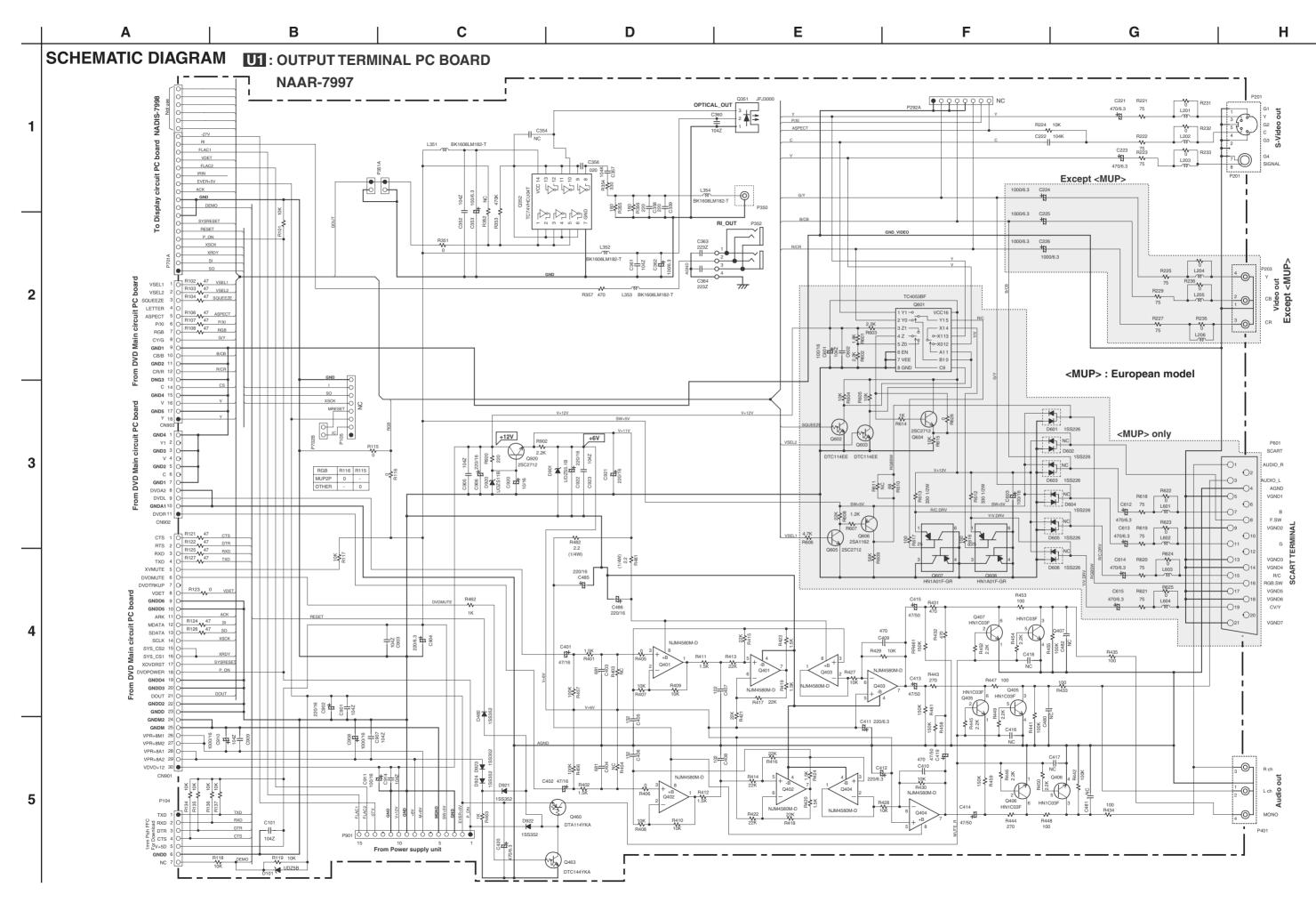
• 0 0 0 0 0 0 NC C221 R221 中 P/XI ASPECT R224 10K C222 104K C223 75 R223 L203 470/6.3 Except <MUP> 1000/6.3 RI OUT 1000/6.3 # 1000/6.3 2 R235 0 L206 2 Y0 ⊸0 **-**X1 4 •-X113 •-X012 A1 1 4 Z → 0 5 Z0 → 0 6 EN 7 VEE <MUP> : European model <MUP> only DTC114EE -()1 AUDIO\_R -()з **-**O5 **O**6 -07 F.SW P.SP SCARDA **-**O9 C613 R619 **○**10 -()11 2SC2712 **○**12 -()13 C614 470/6.3 **—** 15 R/C RGB.SW **—**○17 VGND6 甘 **—**○19 €20 47/50 ¥23 **¥**23 NJM4580M-D 55 55 **W** R417 22K C411 220/6.3 470 60 1 171 470 470 1 171 102 C417 NC Q406 C412 220/6.3 2.2 ¥46 X Q402 <u></u> HN1C03F NJM4580M-D 22K W R418 Q404 + +B <del>-</del> <del>-</del> <del>-</del> 47/50

F

G

Ε

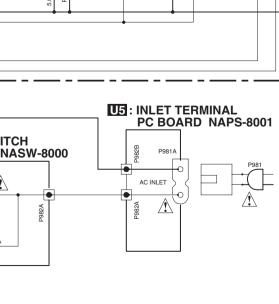


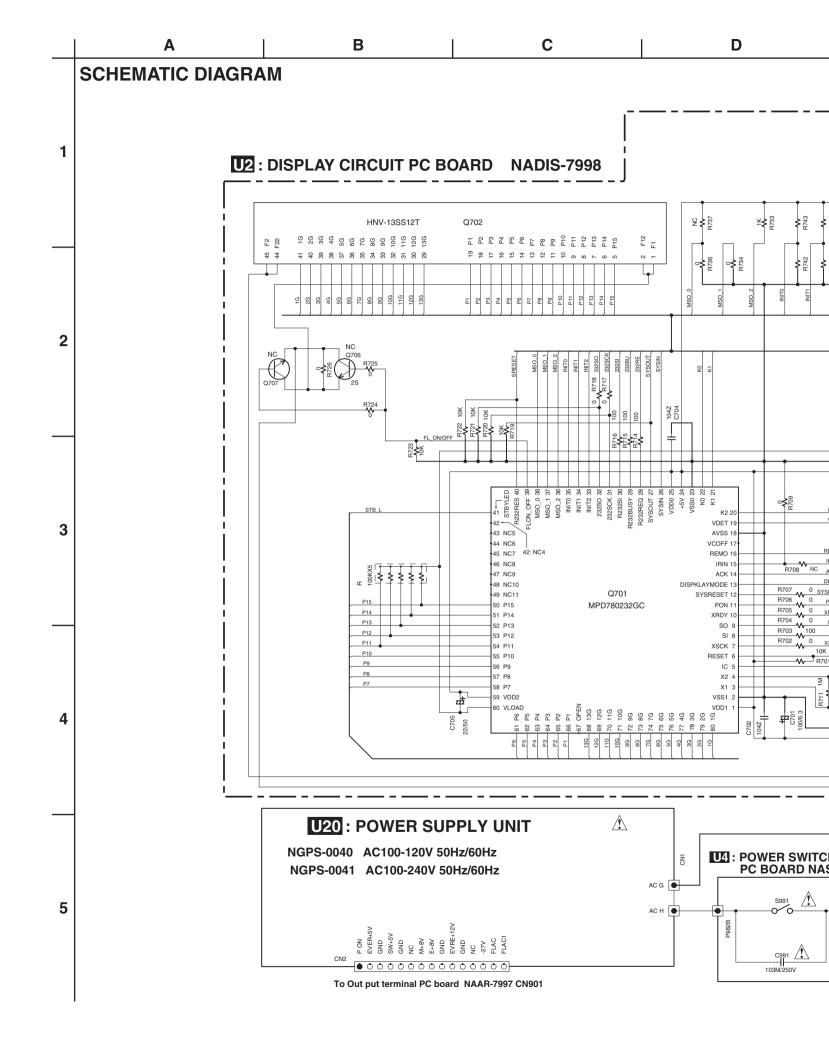


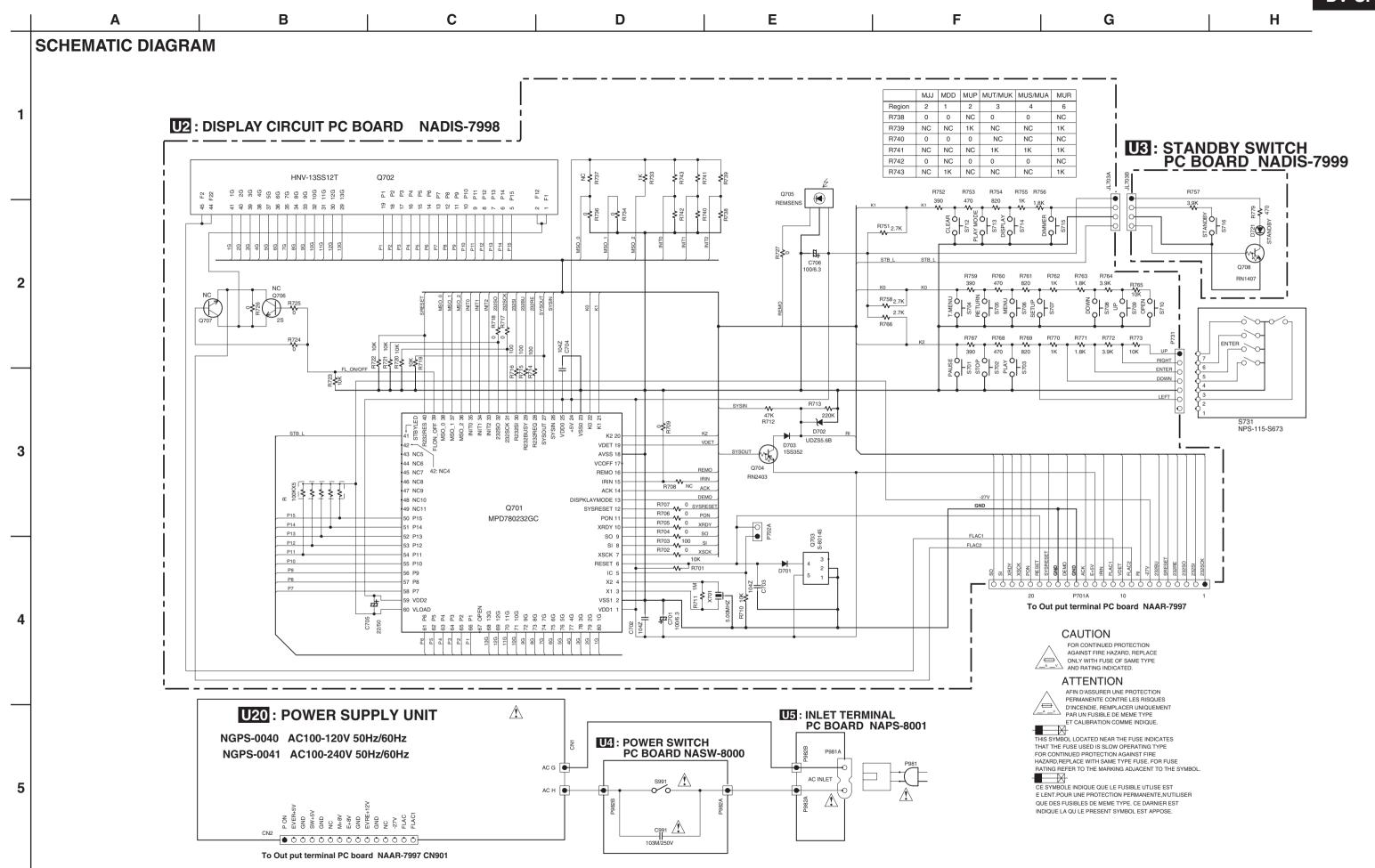
Ε F G Н MJJ MDD MUP MUT/MUK MUS/MUA MUR Region 2 2 3 4 6 R738 0 0 NC NC R739 NC 1K NC NC 1K NC R740 0 0 0 NC NC NC U3: STANDBY SWITCH PC BOARD\_NADIS-7999 R741 NC NC NC 1K 1K 1K R742 0 NC 0 0 NC R743 NC NC NC 1K 1K NC R752 R753 R754 B755 B756 B757 Q705 • REMSENS 470 3.9K 0 S712 S712 S712 S713 S713 S714 STANDBY DIMMER S715 R751<sub>2.7K</sub> STB\_L STB\_L C706 100/6.3 Q708 B759 B760 B761 B763 B764 RN1407 R758<sub>2.7K</sub> R766 ENTER O 1.8K UP • 390 470 820 3.9K 10K S702 S702 S703 S703 S703 RIGHT ENTER O DOWN LEFT R713 S731 NPS-115-S673 D702 UDZS5.6B VDET 1SS352 Q704 REMO RN2403 IRIN NC ACK DEMO 0 SYSRESET GND PON XRDY • O SO FLAC1 00 SI FLAC2 XSCK 10K GND R701 VDET GND ACK E+5V E N P701A 10 To Out put terminal PC board NAAR-7997 R710 **CAUTION** FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH FUSE OF SAME TYPE AND RATING INDICATED. **ATTENTION** AFIN D'ASSURER UNE PROTECTION PERMANENTE CONTRE LES RISQUES D'INCENDIE, REMPLACER UNIQUEMENT PAR UN FUSIBLE DE MEME TYPE U5: INLET TERMINAL ET CALIBRATION COMME INDIQUE PC BOARD NAPS-8001 THIS SYMBOL LOCATED NEAR THE FUSE INDICATES
THAT THE FUSE USED IS SLOW OPERATING TYPE FOR CONTINUED PROTECTION AGAINST FIRE
HAZARD, REPLACE WITH SAME TYPE FUSE. FOR FUSE
RATING REFER TO THE MARKING ADJACENT TO THE SYMBOL. CE SYMBOLE INDIQUE QUE LE FUSIBLE UTLISE EST

E LENT.POUR UNE PROTECTION PERMANENTE, N'UTILISER

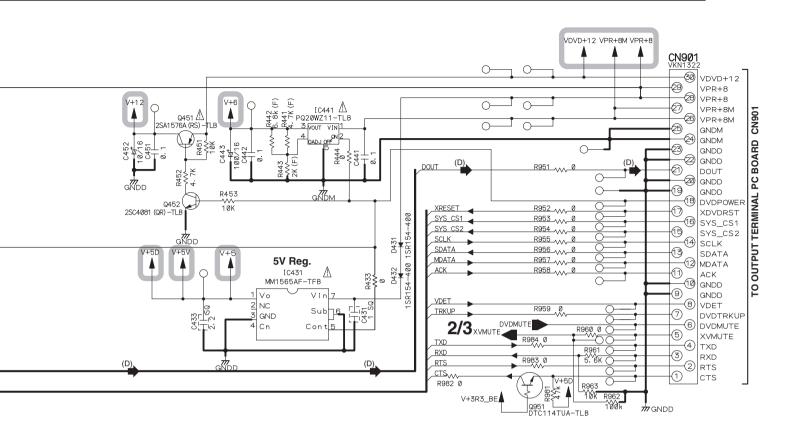
QUE DES FUSIBLES DE MEME TYPE. CE DARNIER EST INDIQUE LA QU LE PRESENT SYMBOL EST APPOSE.

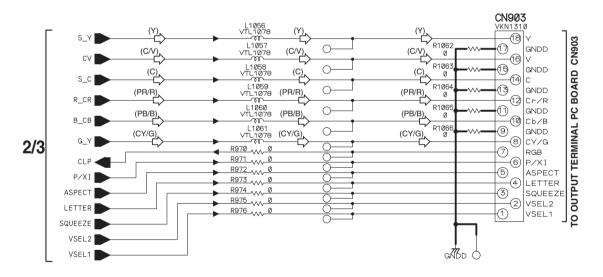






| E | F | G | H





(C/V)

C : VIDEO SIGNAL ROUTE (C/V)

(Y)

C : S VIDEO SIGNAL ROUTE (Y)

(C)

C : S VIDEO SIGNAL ROUTE (Y)

(PR/R)

C : VIDEO SIGNAL ROUTE (PR/R)

(CY/G)

(PB/B)

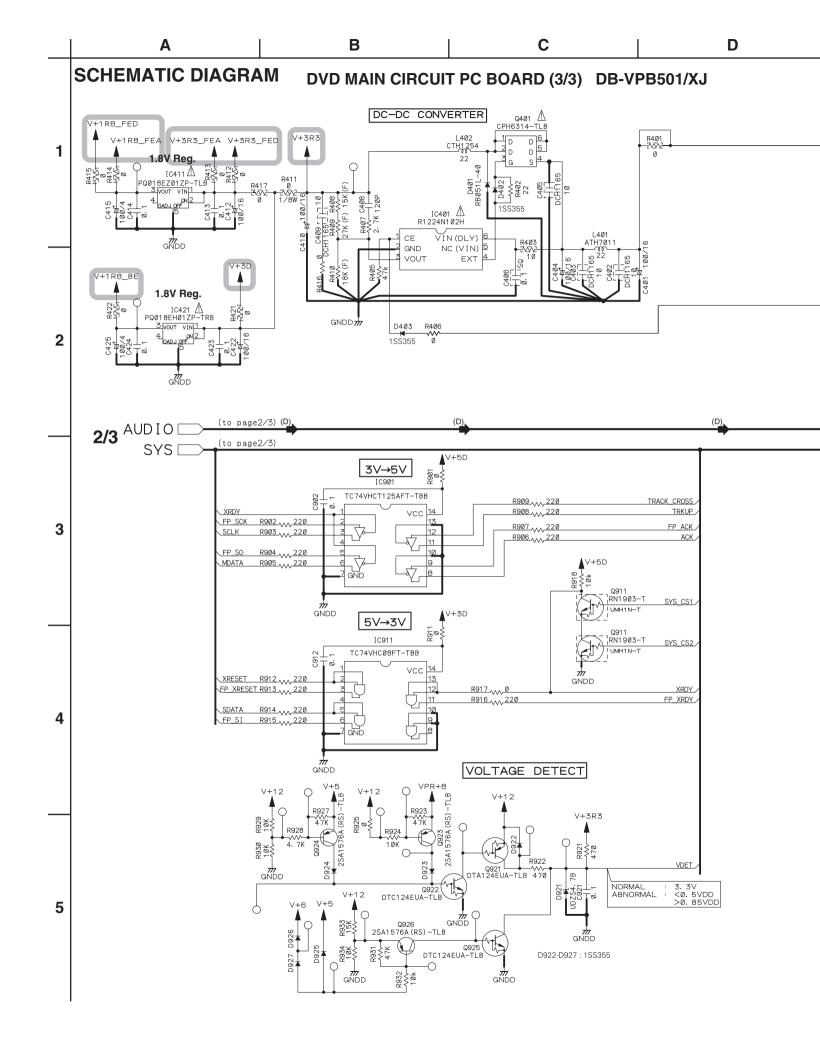
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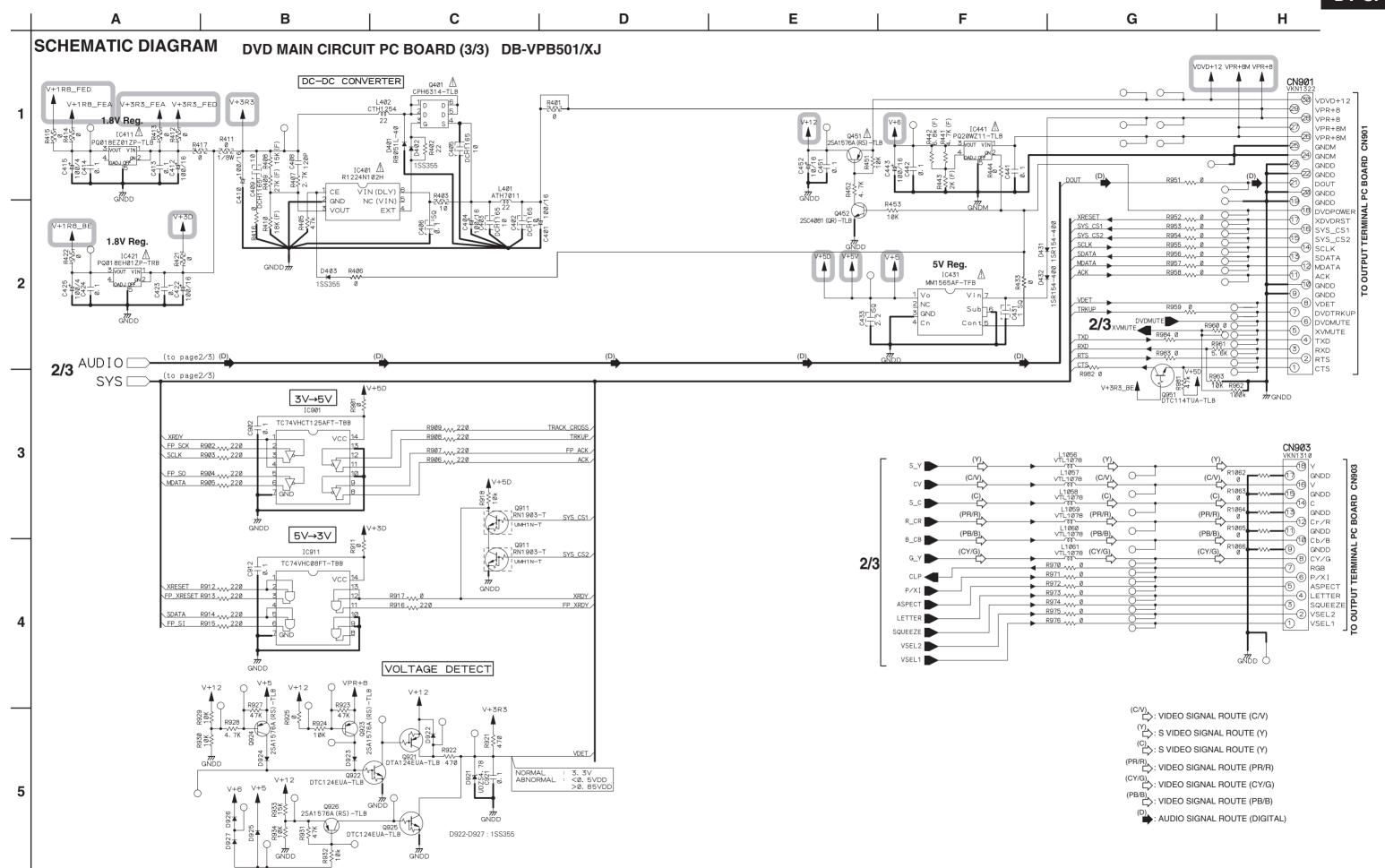
(PB/B)

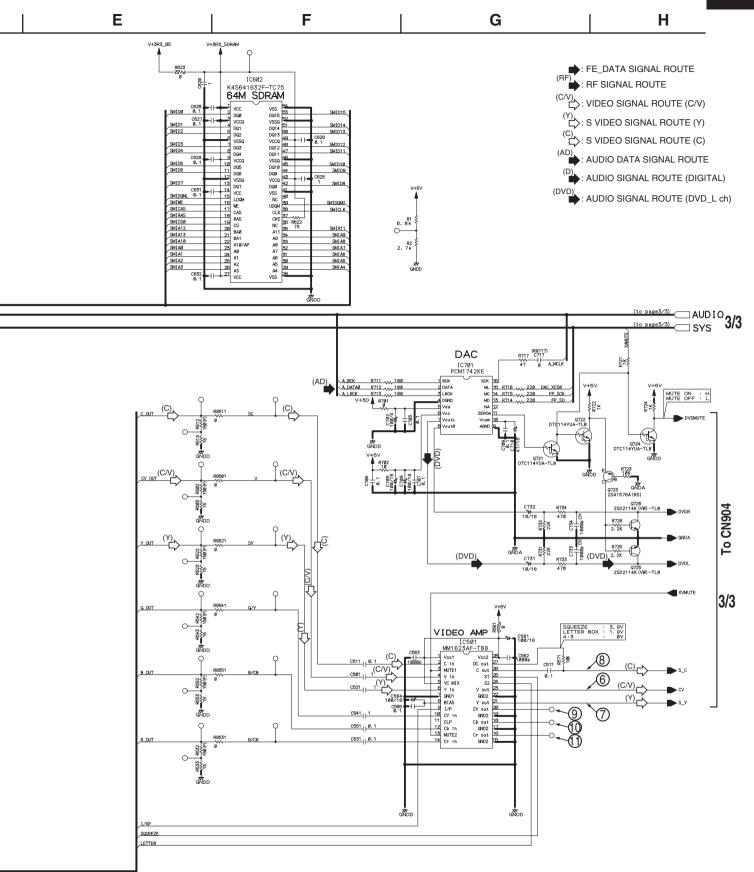
C : VIDEO SIGNAL ROUTE (PB/B)

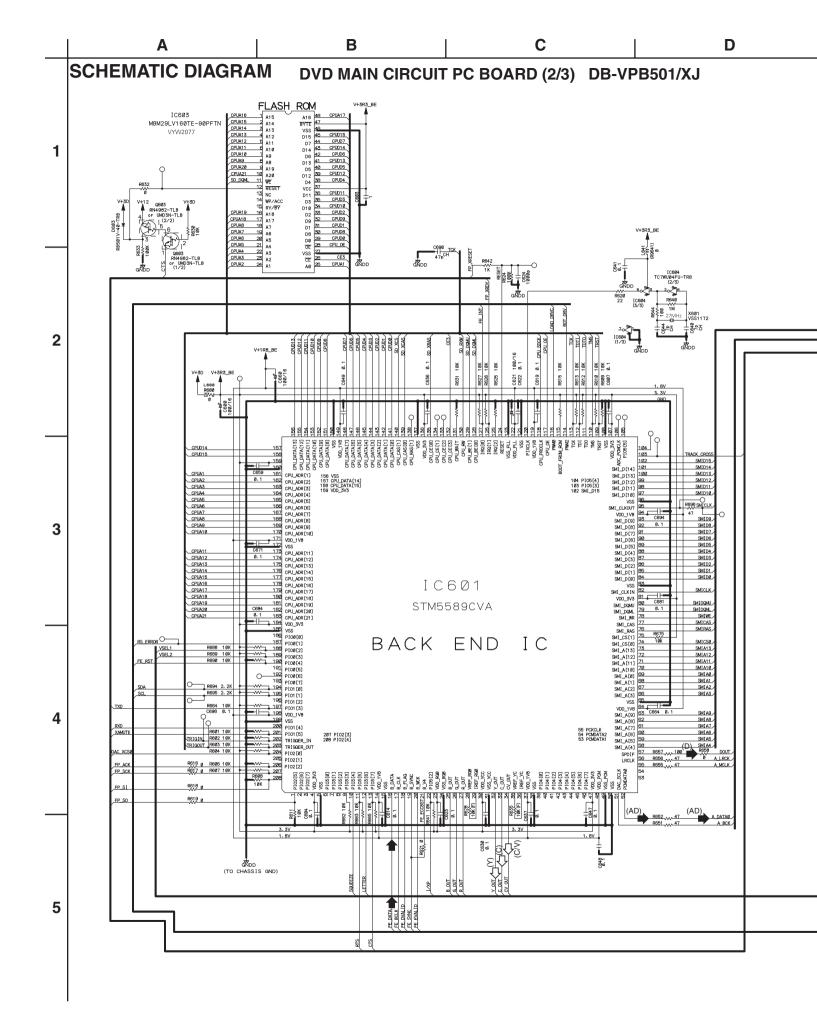
(PB/B)

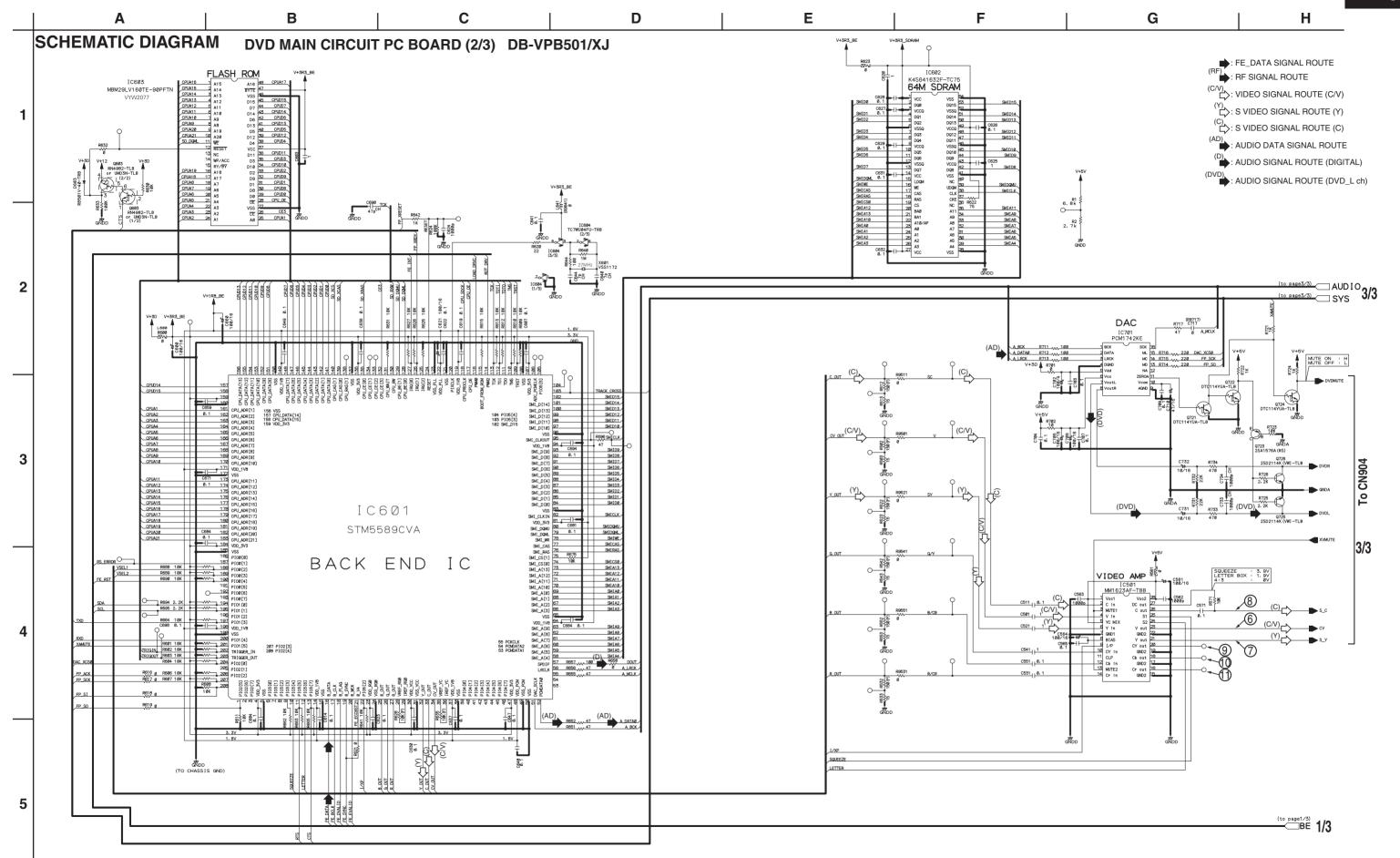
C : AUDIO SIGNAL ROUTE (DIGITAL)











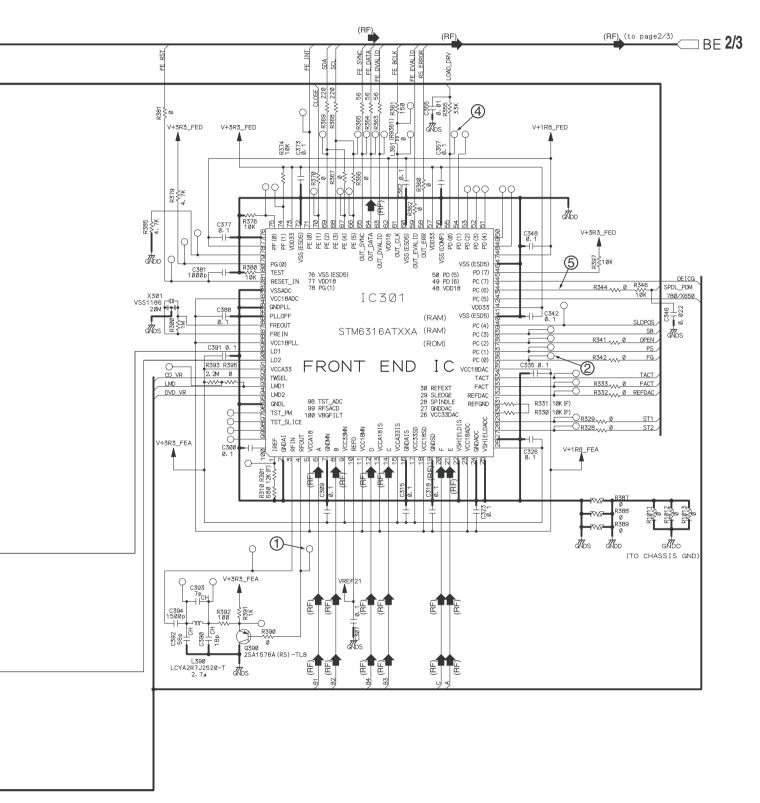
E | F | G | H

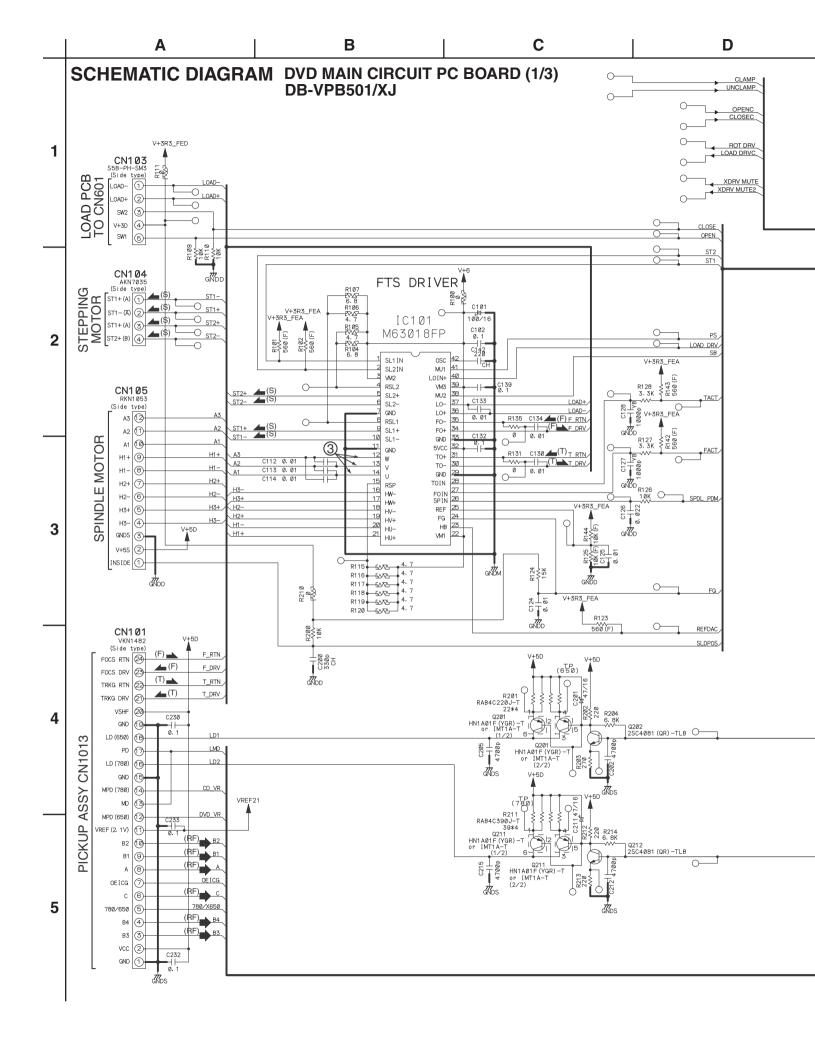
RF SIGNAL ROUTE

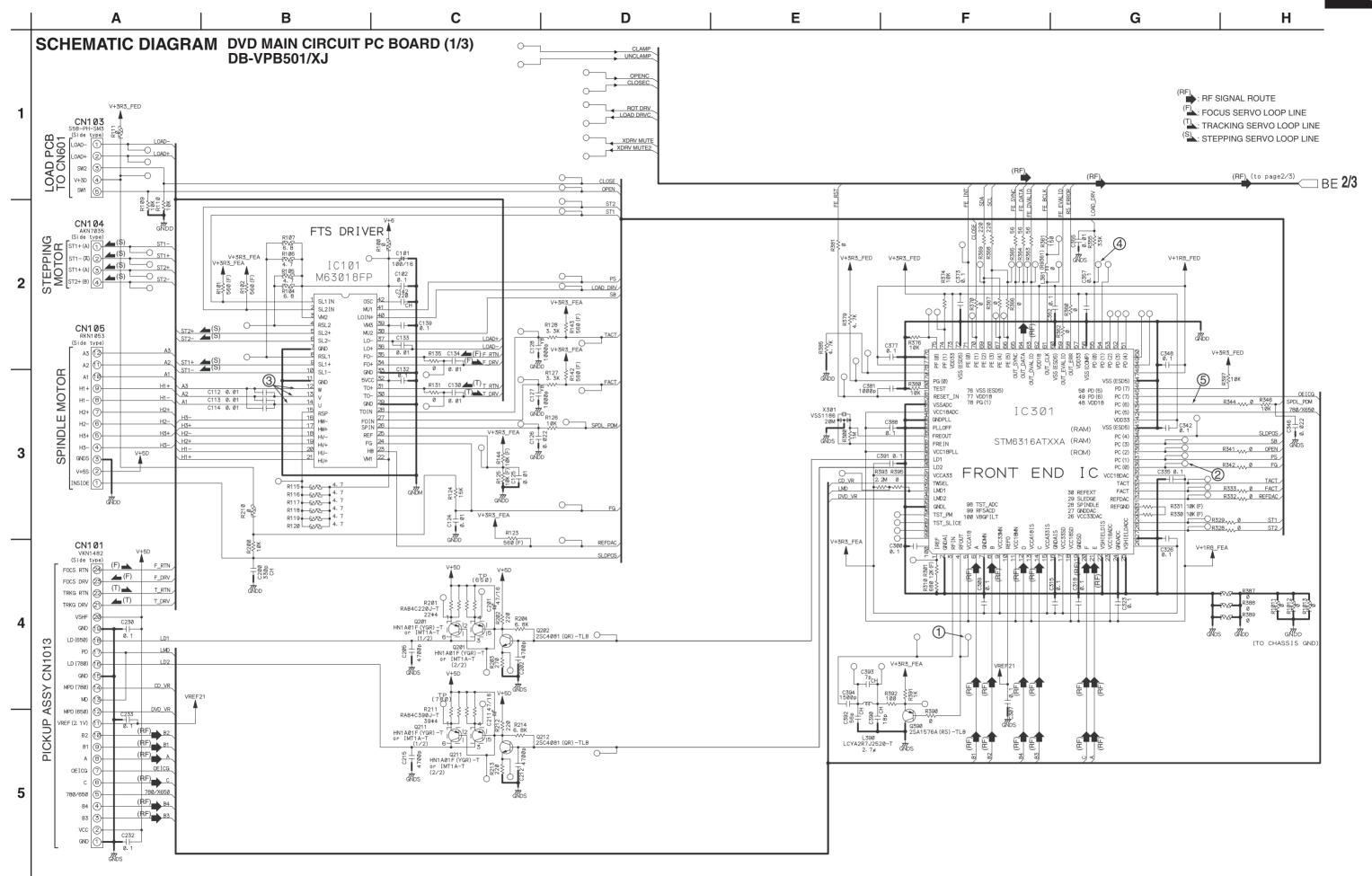
(F): FOCUS SERVO LOOP LINE

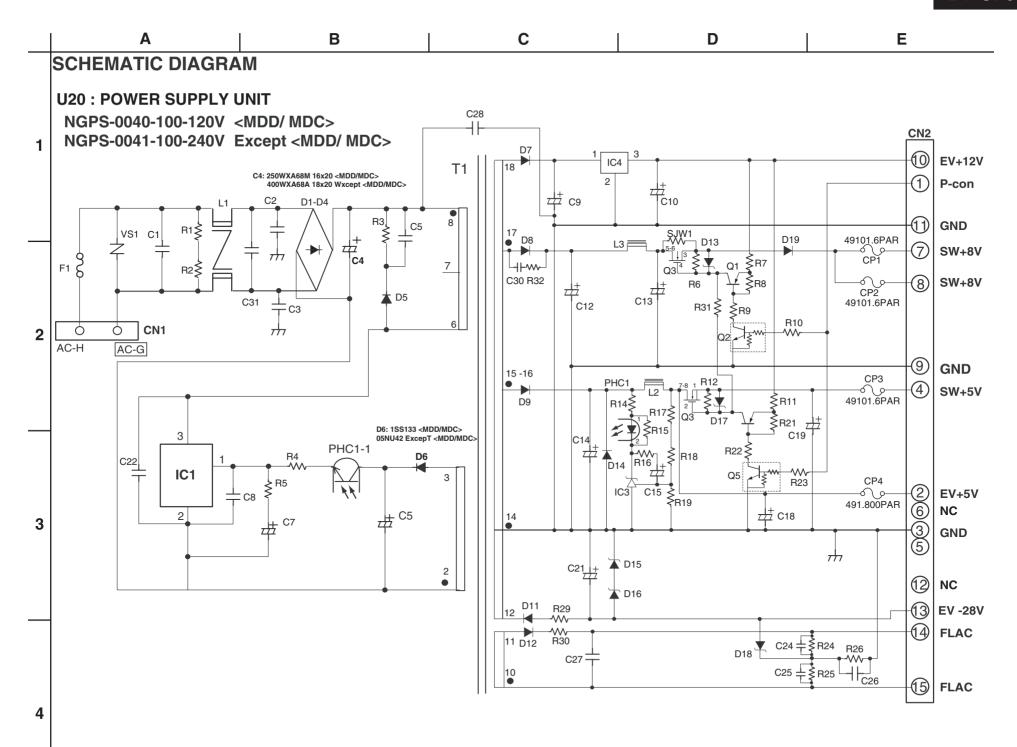
(T): TRACKING SERVO LOOP LINE

(S): STEPPING SERVO LOOP LINE



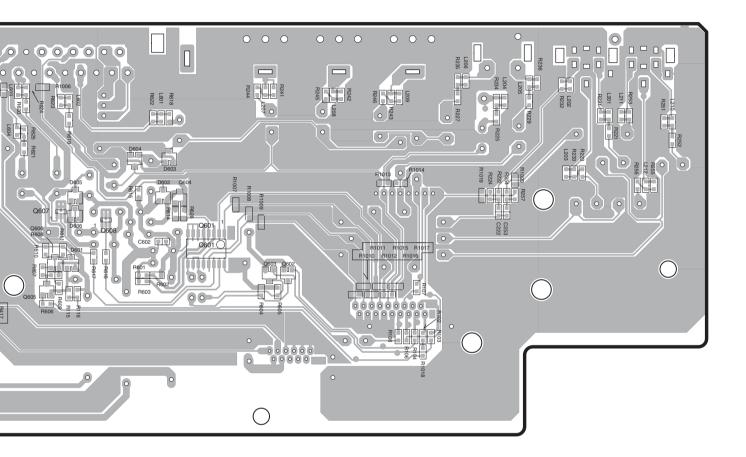






## PC BOARD CONNECTION DIAGRAM DPS-5.4 ONLY NAETC-8005 **U1: OUTPUT TERMINAL PCB** U5: INLET TERMINAL PCB NAAR-7997 NAPS-8001 P981A NTL P351B ⊠ BROWN WHITE P982B WHT P-ON E+5V GND SW+5V GND NC SW+M8V SW+8V GND E+12V GND NC -27V FLAC2 FLAC1 Č CN1 Č BRN U20: POWER SUPPLY UNIT NGPS-0041-100-120V NGPS-0041-100-240V DVD MECHANISM U4: POWER SWITCH PCB NASW-8000 BROWN 982A **Z1: DVD MAIN CIRCUIT PCB** DB-VPB501 U3: STANDBY SWITCH PCB **U2: DISPLAY CIRCUIT PCB** NADIS-7999 P702A P701B **NADIS-7998** TOP\_MENU \$704 RETURN S705 Q702

| E | F | G | H



A | B | C | D

## PRINTED CIRCUIT BOARD FROM SOLDERING SIDE VIEW

**U1**: OUTPUT TERMINAL PC BOARD NAAR-7997

1

5

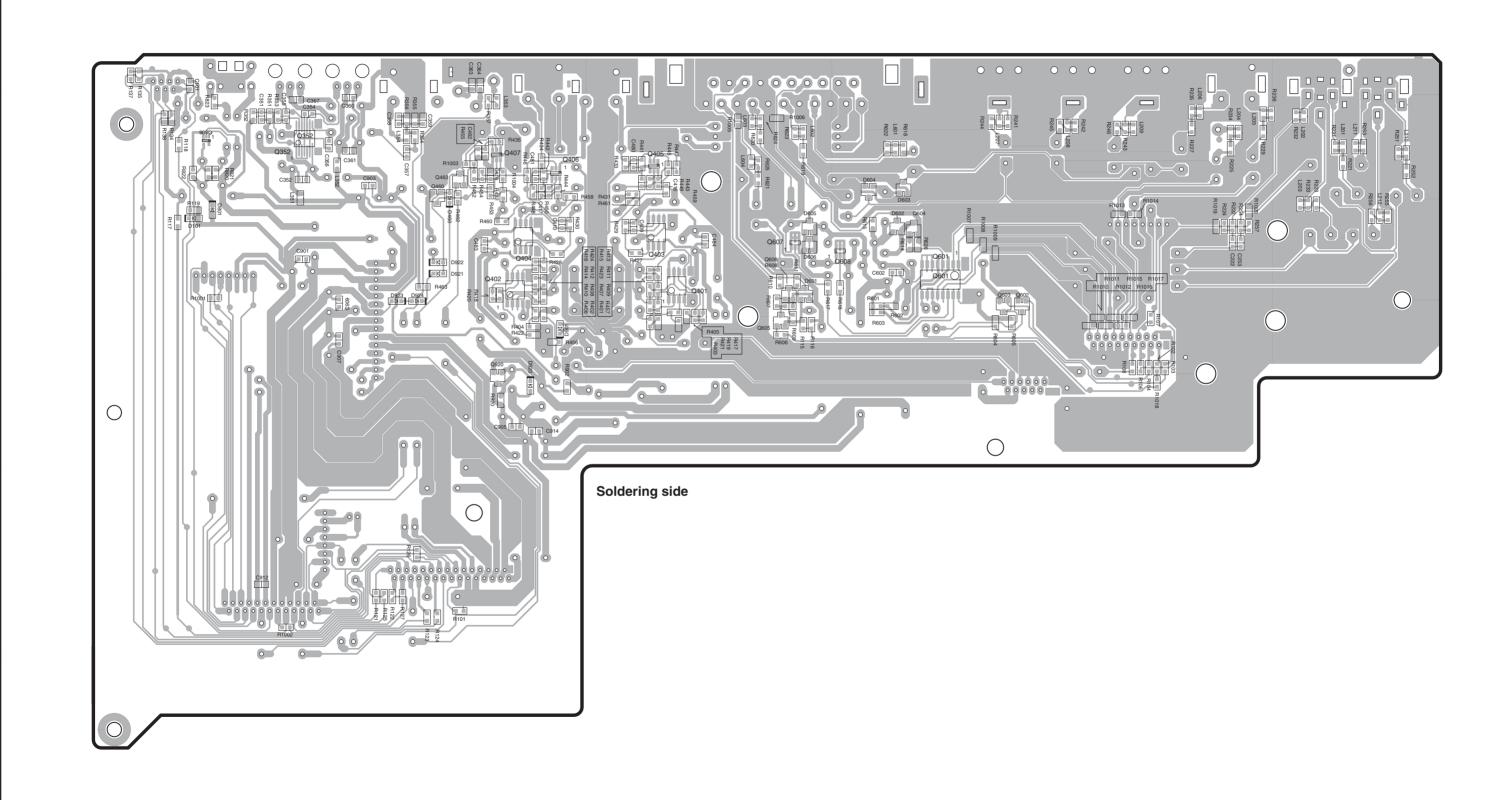
2 C901 O N 0 3  $\bigcirc$ Soldering side 4

DV-SP501

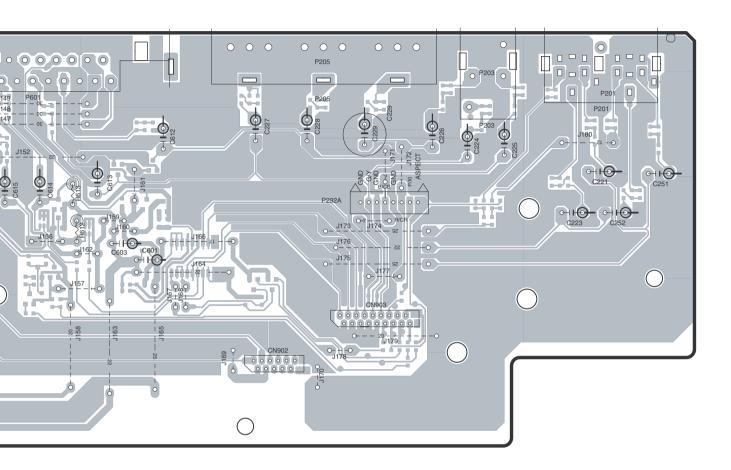
A | B | C | D | E | F | G | H

PRINTED CIRCUIT BOARD FROM SOLDERING SIDE VIEW

U1: OUTPUT TERMINAL PC BOARD NAAR-7997

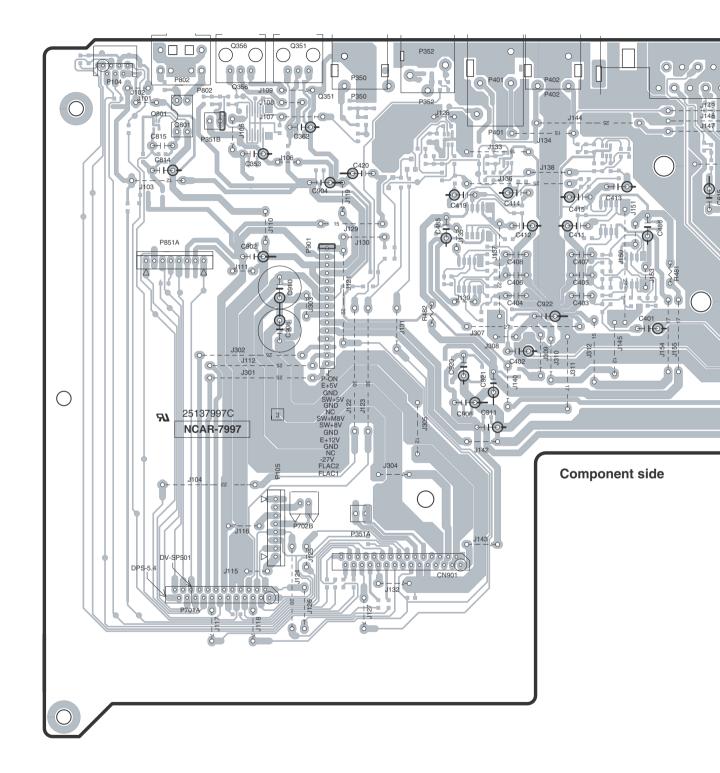


| E | F | G | H



A | B | C | D

## PRINTED CIRCUIT BOARD FROM SOLDERING SIDE VIEW U1: OUTPUT TERMINAL PC BOARD NAAR-7997

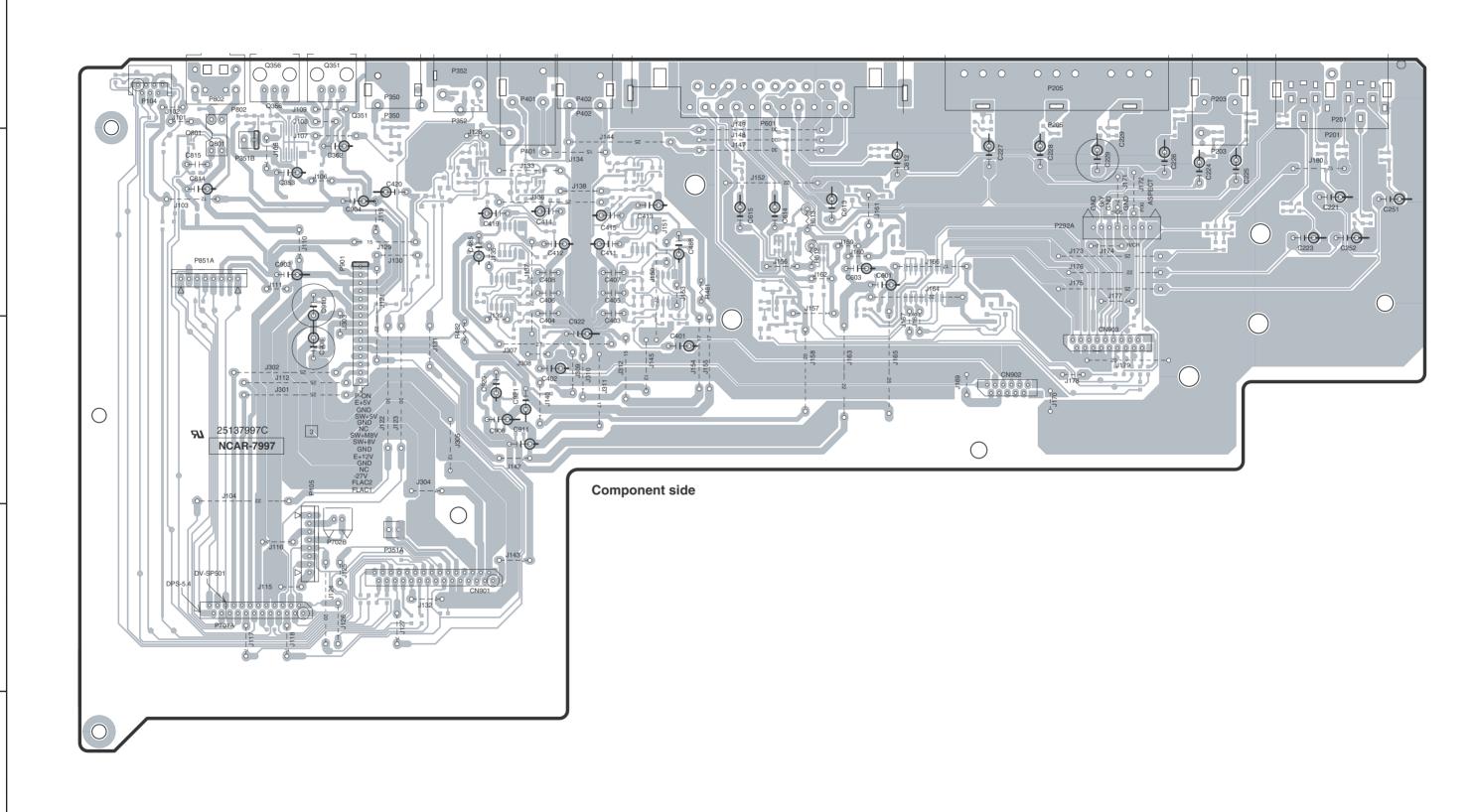


**DV-SP501** 

| A | B | C | D | E | F | G | H

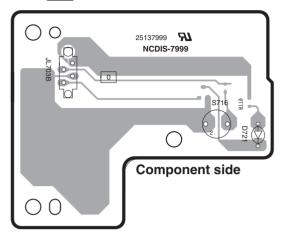
PRINTED CIRCUIT BOARD FROM SOLDERING SIDE VIEW

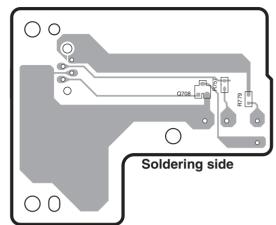
**U1**: OUTPUT TERMINAL PC BOARD NAAR-7997



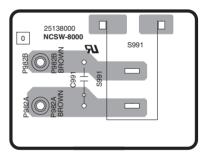
## PRINTED CIRCUIT BOARD FROM BOTTOM VIEW

## U3: STANDBY SWITCH PC BOARD NADIS-7999

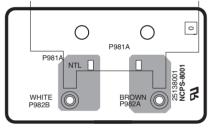




## U4: POWER SWITCH PC BOARD NASW-8000



## U3: INLET TERMINAL PC BOARD NAPS-8001



4

1

2

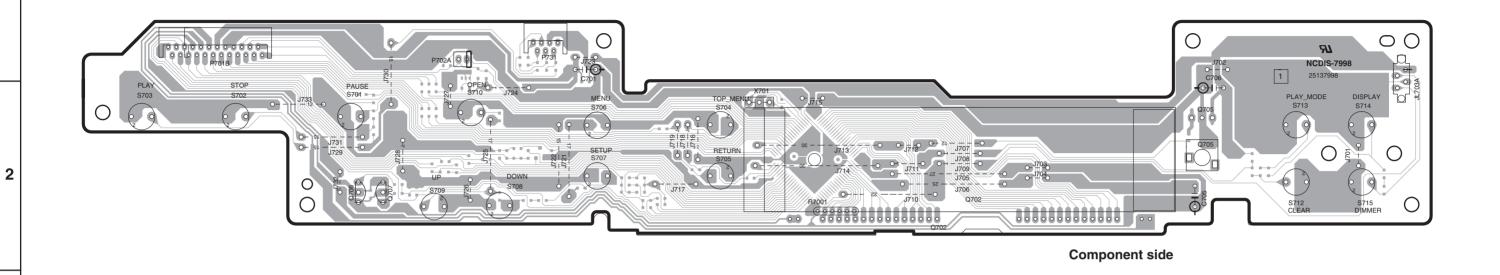
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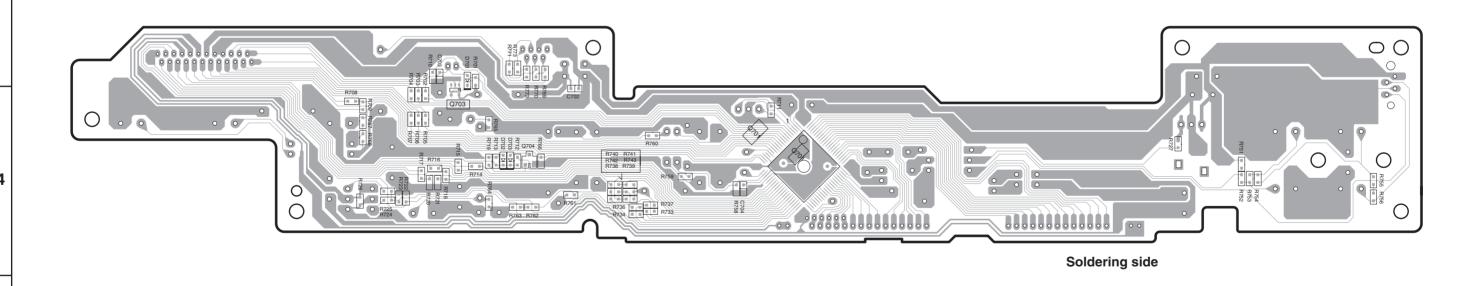
5

A B C D E F G H

PRINTED CIRCUIT BOARD FROM SOLDERING SIDE VIEW

U2: DISPLAY CIRCUIT PC BOARD NADIS-7998

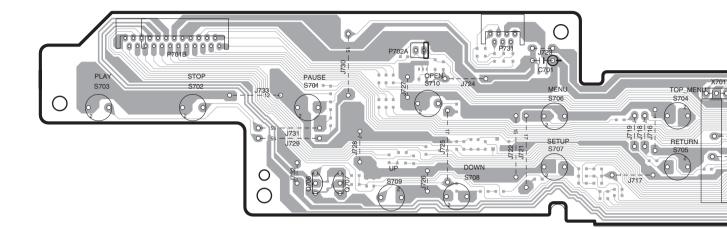




## PRINTED CIRCUIT BOARD FROM SOLDERING SIDE VIEW

U2: DISPLAY CIRCUIT PC BOARD NADIS-7998

1

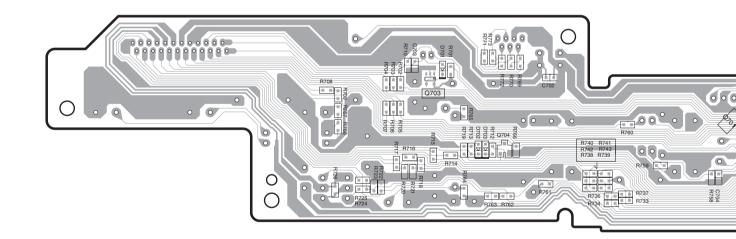


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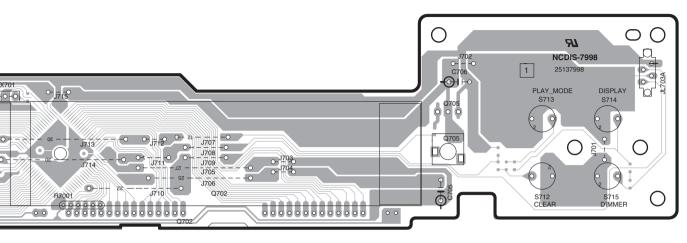
2

4

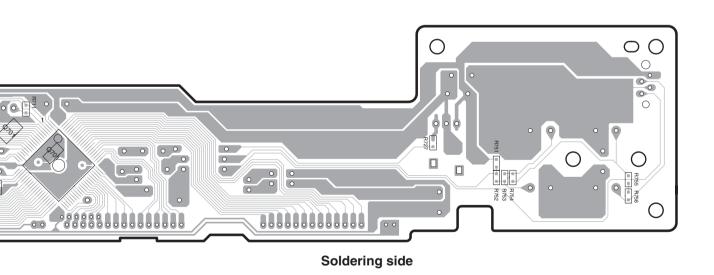
5



| E | F | G | H



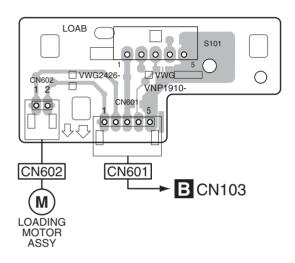
Component side

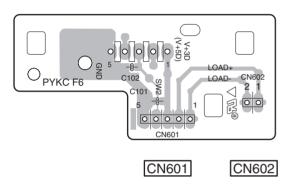


## PRINTED CIRCUIT BOARD VIEW

## **LOAB ASSY**

SIDE A SIDE B



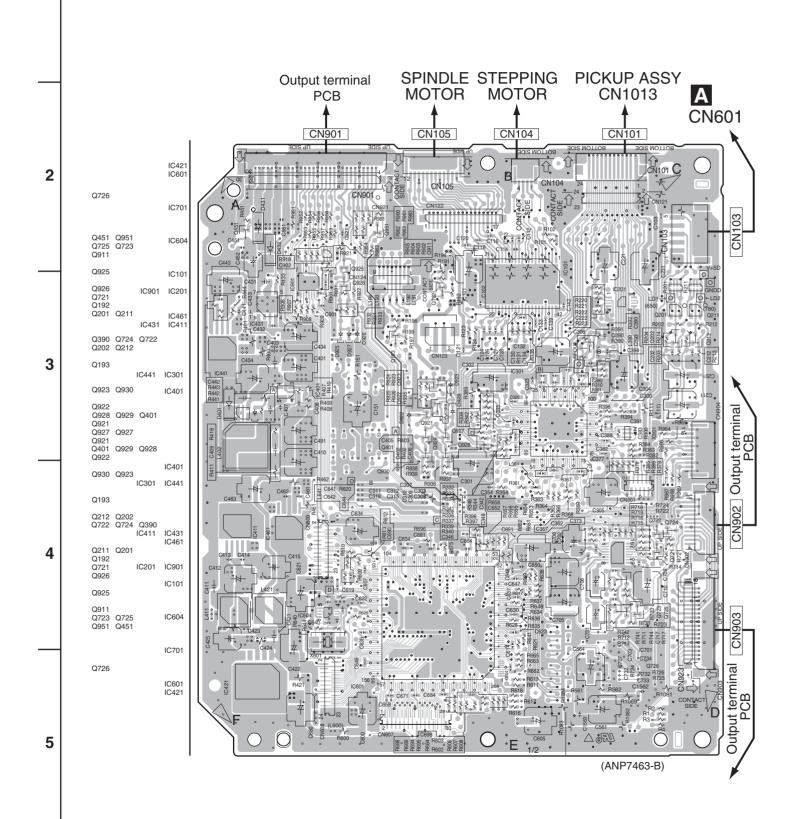


A B C D

PRINTED CIRCUIT BOARD VIEW

# PRINTED CIRCUIT BOARD VIEW DVD MAIN CIRCUIT PC BOARD (DB-VPB501/XJ)

1 SIDE A SIDE A



| A | B | C | D

# PRINTED CIRCUIT BOARD VIEW DVD MAIN CIRCUIT PC BOARD (DB-VPB501/XJ)

1

2

3

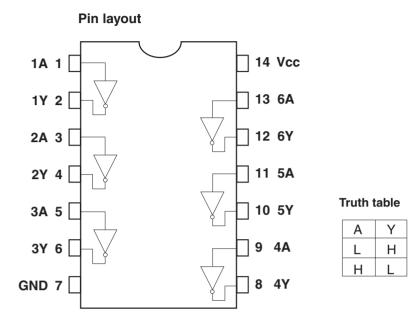
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5

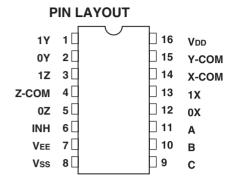
SIDE B SIDE B

IC603 Q603 Q452 IC501 Q541 IC602 IC911 Q551 Q531 Q191 Q194 Q924 IC151 **DVDM ASSY** IC151 Q924 Q194 Q191 Q531 Q551 Q541 IC911 IC602 IC501 Q452 Q603 IC603 ICT FC Q977 Q521 Q501 Q511

## Q532:TC74VHCU04FT Hex inverter



#### Q601: TC4053B TRIPLE 2 - CHANNEL MULTIPLEXER / DEMULTIPLEXER

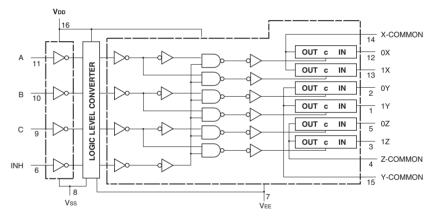


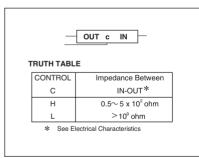
#### **TRUTH TABLE**

CONT	ROL II	NPUTS	"ON" CHANNEL
INHIBIT	В	Α	
L	L	L	0X, 0Y, 0Z
L	L	Н	1X, 0Y, 0Z
L	Н	L	0X, 1Y, 0Z
L	Н	Н	1X, 1Y, 0Z
L	L	L	0X, 0Y, 1Z
L	L	Н	1X, 0Y, 1Z
L	Н	L	0X, 1Y, 1Z
L	Н	Н	1X, 1Y, 1Z
Н	☆	☆	NONE

☆: Don't Care

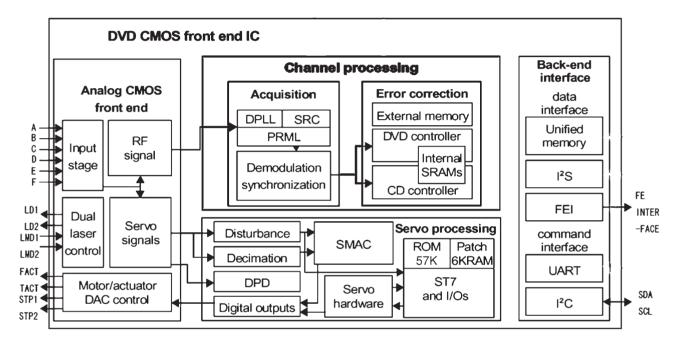
#### **LOGIC DIAGRAM**





IC301: STM6316ATXXA FRONT END IC

#### **Block Diagram**



IC301: STM6316AT

No.	PIN name	description	detail	
1	IREF	12.7k	Analog block reference part	
2	GNDAI	GND	analog gnd	
3	RFIN	capacitor	RF signal C association input to a demodulation block	
4	RFOUT	capacitor	B1+B2+B3+B4 mixture listing from an analog block	
5	VCCA18	1V8	analog 1V	
6	A	B1	PU - B1 input	
7	GNDMN	GND	analog gnd	
8	В	B2	PU - B2 input	
9	VCC33MN	3V3	analog 3V	
10	REFD	to pick up	2V1 output for PU	
11	VCC18MN	1V8	analog 1V	
12	D	B4	PU - B4 input	
13	VCCA18IS	1V8	analog 1V	
14	С	B3	PU - B3 input	
15	VCCA33IS	3V3	analog 3V	
16	GNDAIS	GND	analog gnd	
17	VCC33SD	3V3	analog 3V	
18	VCC18SD	1V8	analog 1V	
19	GNDSD	GND	analog gnd	
20	F	С	PU-3 beam C input	
21	E	A	PU-3 beam A input	
22	VSHIELDIS	GND	analog gnd	
23	VCC18ADC	1V8	analog 1V	
24	GNDADC	GND	analog gnd	
25	VSHIELDADC	GND	analog gnd	
26	VCC33DAC	3V3	analog 3V	
27	GNDDAC	GND	analog gnd	
28	SPINDLE	560ohm(st2)	DAC current listing for stepper drive	
29	SLEDGE	560ohm(st1)	DAC current listing for stepper drive	
30	REFEXT	20K1	Reference for DAC	
31	REFGND	refex	analog gnd	
32	REFDAC	560ohm1%	DAC reference	
33	FACT	560ohm1%	DAC current listing for focus	
34	TACT	560ohm1%	DAC current listing for tracking	
35	VCC18DAC	1V8	analog 1V	
	PG0	F	FG pulse input	
	PC1	Р	Driver control signal	
	PC2	tray SW1(open)	SW input for tray OPEN position	
	PC3	SI	Driver control signal	
40	PC4	SLD position	Inside SW input	

IC301: STM6316AT

No.	PIN name	description	detail
41	VSS	GND	digital gnd
42	VDD33	3V3	digital 3V3
43	PC5	780/X65	780nm/650nmLD change control signal
44	PC6	spinde PD	Control PDM listing for spindle drive
45	PC7	opicgai	OEIC gain control signal
46	PD7	03PU/X02P	Pull-up settlemen
47	VSS	GND	digital gnd
48	VDD18	1V8	digital 1V8
49	PD6	(debug)	test
50	PD5	(debug)	test
51	PD4	(DSPclk)	test
52	PD3	(DSPdata)	test
53	PD2	(DSPstrb1)	test
54	PD1	error monitor	Terminal for TRKG error monitor (30KHzLPF add need)
55	PD0	tray PDM drive	Control PDM signal for tray drive
56	VSS	GND	digital gnd
57	VDD33	3V3	digital 3V3
58	OUT_ERR	RS_ERRO	BE DATA I/F
59	OUT_EVALID	RS_ERR_E	BE DATA I/F
60	VSS	GND	digital gnd
61	OUT_CLK	RS_BCL	BE DATA I/F
62	VDD18	1V8	digital 1V8
63	OUT_DVALID	RS_DVALI	BE DATA IF
64	OUT_DATA	RS_DAT	BE DATA I/F
65	OUT_SYNC	RS_ECCBS	BE DATA IF
66	PE5	SCL(DMA)	FE routine download input
67	PE4	SDA(DMA)	FE routine download input
68	PE2	SC	BE command I/F
69	PE2	SD	BE command I/
70	PE1	tray SW2(close)	SW input for tray CLOSE position
71	PE0	DXXIN	FE status propagation signal
72	VSS	GNDD	digital gnd
73	VDD3	3V3	digital 3V3
74	PF1	10K-pullup	Built-in facility setting terminal
75	PF0	10K-pulldown	Built-in facility setting terminal
76	VSS	GND	digital gnd
77	VDD18	1V8	digital 1V8
78	PG1	to EMULATO	Built-in facility setting terminal
79	PG0	to EMULATO	Built-in facility setting terminal
80	TEST	10K-pulldown	test

IC301: STM6316AT

No.	PIN name	description	detail
81	RESET_N	RESET	RESET input
82	VSSADC	GND	analog gnd
83	VDD18ADC	1V8	analog 1V8
84	GNDPLL	GND	analog gnd
85	PLLOFF	GND	analog gnd
86	FREOUT	20MXtal	SYSTEMCLK oscillating circuit
87	FREIN	20MXtal	SYSTEMCLK oscillating circuit
88	VCC18PLL	1V8	analog 1V8
89	LD1	650nmLD	650nmLD driving signal
90	LD2	780nmLD	780nmLD driving signal
91	VCCA33	3V3	digital 3V3
92	TWSEL	CD_VR/GN	Monitor diodes VR junction terminal for CD
93	LMD1	LMD/LMD	Monitor voltage junction terminal
94	LMD2	DVD_VR/LMD2	Monitor diodes VR junction terminal for DVD
95	GNDL	GND	analog gnd
96	TST_PM	n	tset
97	TST_SLICE	n	test
98	TST_ADC	n	test
99	RFSACD	SACD_I	RF signal output
100	VBGFILT	capacitor	Condenser junction terminal for inside reference stability

No.	Pin Name	Dir.	Pin Function	
1	FP_SO	OUT	Front Panel / DAC interface. Serial transfer data output.	
2	A_DATA3	OUT	reserve	
3	VCLK	OUT	reserve	
4	VDD_3V3	-	3.3 V Power supply	
5	VSS	-	Ground	
6	BTDATA	OUT	reserve	
7	BTBCLK	OUT	reserve	
8	BTFLAG	OUT	reserve	
		OUT	It is not connected except 5 Disc Changer	
9	TRYPOS	IN	Only 5 Disc Changer. Tray rotation pulse input. CAPTURE_IN0 can be used.	
10	SQUEEZE	OUT	Output signal for S-Video output S1/S2 control. 'H' : squeeze output mode.	
11	RTS	OUT	UART(RS-232C) Request To Send signal output	
12	LETTER	OUT	Output signal for S-Video output S1/S2 control & EURO(SCART) connector (FUNCTION SWITCHING) signal.  'H': letter-box output mode.	
13	CTS	IN	UART(RS-232C) Clear To Send signal input	
14	VDD_1V8	-	1.8 V Power supply	
15	VSS	-	Ground	
16	FE_DATA	IN	Front-End L6316 stream interface. Serial data input.	
17	FE_BCLK	IN	Front-End L6316 stream interface. Serial clock input.	
18	FE_DVALID	IN	Front-End L6316 stream interface. Data valid flag input.	
19	FE_SYNC	IN	Front-End L6316 stream interface. Serial synchronize flag input.	
20	FE_EVALID	IN	Front-End L6316 stream interface. Error valid flag for RS_split.	
21	FE_ECCBST	IN	Front-End L6316 stream interface. ECC block start flag for RS_split.	
22	I/XP	OUT	Output signal for a change of interlace/Progressive output for video driver.  'L' : progressive 'H' : interlace	
23	VDD_RGB	-	RGB circuit 3.3 V Power supply	
24	VSS_RGB	-	RGB circuit Ground	
25	B_OUT	OUT	B / Cb	
26	G_OUT	OUT	G/Y	
27	R_OUT	OUT	R / Cr	
28	VREF_RGB	IN	RGB DAC reference	
29	IREF_RGB	IN	RGB DAC current reference	
30	VDD_YCC	-	YC circuit 3.3 V Power supply	
31	VSS_YCC	-	YC circuit Ground	
32	Y_OUT	OUT	Υ	
33	C_OUT	OUT	С	
34	CV_OUT	OUT	CV	
35	VREF_YCC	IN	YCC DAC reference	
36	IREF_YCC	IN	YCC DAC current reference	
37	VDD_1V8	-	1.8 V Power supply	
38	VSS	-	Ground	

No.	Pin Name	Dir.	Pin Function	
			It is not connected except 5 Disc Changer.	
39	XDRVMUTE	OU	Only 5 Disc Changer. Output signal for motor driver muting. 'L' : muting	
		OUT	It is not connected except 5 Disc Changer	
40	OPEN	IN	Only 5 Disc Changer. Input signal for tray position. 'H': complete OPEN position.	
		OUT	It is not connected except 5 Disc Changer	
41	CLOSE	IN	Only 5 Disc Changer. Input signal for tray position. 'H': complete CLOSE position.	
		OUT	It is not connected except 5 Disc Changer	
42	CLAMP	IN	Only 5 Disc Changer. Input signal for showing disc clamp position. 'H': complete disc clamp position.	
		OUT	It is not connected except 5 Disc Changer	
43	UNCLAMP	IN	Only 5 Disc Changer. Input signal for showing disc un-clamp position. 'H': complete disc clamp position.	
		OUT	It is not connected except 5 Disc Changer	
44	DISC_SNS	IN	Only 5 Disc Changer. Input signal for disc existing. 'L': existing	
45	XDRVMUTE2	OUT	reserved	
46	TP-x	OUT	reserved	
47	VDD_3V3	-	3.3 V Power supply	
48	VDD_PCM	-	1.8 V Power supply	
49	VSS_PCM	-	Ground	
50	VSS	-	Ground	
51	A_BCK	OUT	Audio DAC clock	
52	A_DATA0	OUT	Audio DAC Front L,R data	
53	A_DATA1	OUT	reserved	
54	A_DATA2	OUT	reserved	
55	A_MCLK	OUT	Audio DAC Master clock	
56	A_LRCK	OUT	Audio DAC L/R clock	
57	A_DOUT	OUT	S/PDIF(IEC60958) digital audio output	
58	SMI_A4			
59	SMI_A5	7		
60	SMI_A6	OUT	CMI CDDAM Address	
61	SMI_A7	OUT	SMI SDRAM Address	
62	SMI_A8	7		
63	SMI_A9	7		
64	VDD_1V8	-	1.8 V Power supply	
65	VSS	-	Ground	
66	SMI_A3			
67	SMI_A2	7		
68	SMI_A1	7		
69	SMI_A0	OUT	CMI CDDAM Address	
70	SMI_A10	OUT	SMI SDRAM Address	
71	SMI_A11	7		
72	SMI_A12	7		
73	SMI_A13	7		

74         SMI_CS0         OUT         SMI_SDRAM chip select 'L'           75         SMI_CS1         OUT         reserve           76         SMI_RAS         OUT         SMI_SDRAM RAS 'L'           77         SMI_CAS         OUT         SMI_SDRAM CAS 'L'           78         SMI_WE         OUT         SMI_SDRAM Write Enable 'L'           79         SMI_DQML         OUT         SMI_SDRAM Lower DQM 'L': Lower select           80         SMI_DQMU         OUT         SMI_SDRAM Upper DQM 'L': Upper select           81         VDD_3V3         -         3.3 V Power supply           82         SMI_CLKIN         IN         External SDRAM clock input           83         VSS         -         Ground           84         SMI_D0         SMI_D0         SMI_D1           86         SMI_D1         SMI_D3         SMI_SDRAM Data           89         SMI_D5         SMI_SDRAM Data		
76		
76         SMI_RAS         OUT         SMI SDRAM RAS 'L'           77         SMI_CAS         OUT         SMI SDRAM Write Enable 'L'           78         SMI_WE         OUT         SMI SDRAM Lower DQM 'L': Lower select           80         SMI_DQMU         OUT         SMI SDRAM Upper DQM 'L': Lower select           81         VDD_3V3         -         3.3 V Power supply           82         SMI_CLKIN         IN         External SDRAM clock input           83         VSS         -         Ground           84         SMI_D0         SMI_D1         SMI_D1           86         SMI_D2         SMI_D3           87         SMI_D3         I/O           89         SMI_D6         SMI_D6           90         SMI_D6         SMI_D7		
77         SMI_CAS         OUT         SMI SDRAM CAS 'L'           78         SMI_WE         OUT         SMI SDRAM Write Enable 'L'           79         SMI_DQML         OUT         'SMI SDRAM Lower DQM 'L': Lower select           80         SMI_DQMU         OUT         SMI SDRAM Upper DQM 'L': Upper select           81         VDD_3V3         - 3.3 V Power supply           82         SMI_CLKIN         IN         External SDRAM clock input           83         VSS         - Ground           84         SMI_D0         SMI_D1           86         SMI_D1         SMI_D3           88         SMI_D4         I/O           89         SMI_D5         SMI_D6           91         SMI_D7		
78         SMI_WE         OUT         SMI SDRAM Write Enable 'L'           79         SMI_DQML         OUT         SMI SDRAM Lower DQM 'L': Lower select           80         SMI_DQMU         OUT         SMI SDRAM Upper DQM 'L': Upper select           81         VDD_3V3         - 3.3 V Power supply           82         SMI_CLKIN         IN         External SDRAM clock input           83         VSS         - Ground           84         SMI_D0         SMI_D1           86         SMI_D1         SMI_D3           88         SMI_D5         I/O           90         SMI_D6         SMI_D7		
79         SMI_DQML         OUT         SMI SDRAM Lower DQM 'L': Lower select           80         SMI_DQMU         OUT         SMI SDRAM Upper DQM 'L': Upper select           81         VDD_3V3         - 3.3 V Power supply           82         SMI_CLKIN         IN         External SDRAM clock input           83         VSS         - Ground           84         SMI_D0         SMI_D1           86         SMI_D1         SMI_D3           88         SMI_D4         I/O           89         SMI_D5         SMI_D6           91         SMI_D7         SMI_SDRAM Data		
SMI_DQMU		
SMI_DQMO		
82         SMI_CLKIN         IN         External SDRAM clock input           83         VSS         -         Ground           84         SMI_D0         SMI_D1         SMI_D1           86         SMI_D2         SMI_D3         SMI_D3           88         SMI_D4         SMI_D5         SMI_SDRAM Data           90         SMI_D6         SMI_D7		
83   VSS   -		
84     SMI_D0       85     SMI_D1       86     SMI_D2       87     SMI_D3       88     SMI_D4       89     SMI_D5       90     SMI_D6       91     SMI_D7    SMI SDRAM Data		
85 SMI_D1 86 SMI_D2 87 SMI_D3 88 SMI_D4 89 SMI_D5 90 SMI_D6 91 SMI_D7		
86   SMI_D2		
87   SMI_D3		
88 SMI_D4 89 SMI_D5 90 SMI_D6 91 SMI_D7		
89   SMI_D5   I/O   SMI SDRAM Data		
89   SMI_D5     90   SMI_D6     91   SMI_D7		
90 SMI_D6 91 SMI_D7		
91 SMI_D7		
92  SMI_D8		
93   SMI_D9		
95 SMI_CLKOUT OUT SDRAM clock output		
96 VSS - Ground		
97 SMI_D10		
98 SMI_D11		
99 SMI_D12 I/O SMI SDRAM Data		
100 SMI_D13		
101 SMI_D14		
102 SMI_D15		
103 TRACK_CROSS OUT reserved		
104 DSD_XPCM OUT reserved		
105 DAC_XRST OUT reserved		
106 ADC_PCMCLK OUT reserved		
107 VDD_3V3 - 3.3 V Power supply		
108 VSS - Ground		
109 XTRST IN Diagnostic Control Unit interface		
110 TMS IN Diagnostic Control Unit interface		
111 TDO OUT Diagnostic Control Unit interface		
112 TDI IN Diagnostic Control Unit interface		
113 TCK IN Diagnostic Control Unit interface		
114 ROTDRV OUT Only 5 disc changer. PWM output for tray rotation.		
Boot select  'L': Boot from DCU.  'H': Boot form ROM.		
116 LOAD_DRV OUT Only 5 disc changer. PWM output for tray Open/Close drive.		
OE signal for 16M bits FLASH memory for firmware.    OE signal for 16M bits FLASH memory for firmware.		

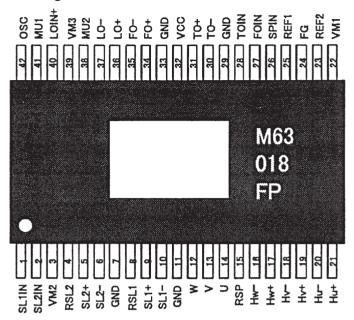
No.	Pin Name	Dir.	Pin Function
118	CPU_SDCK	OUT	CLOCK for 64M bits SDRAM for debugging firmware
119	VDD_1V8	-	1.8 V Power supply
120	PIXCLK	IN	Master 27MHz system clock input
121	VSS	-	Ground
122	VDD_PLL	-	Clock PLL circuit 1.8 V Power supply
123	VSS_PLL	-	Clock PLL circuit Ground
124	XRESET	IN	Power ON system RESET signal.
124	XHESET	IIN	'L': reset
125	SACD_IRQ	IN	reserved
126	FP_XRDY	IN	Front Panel interface. Hand-shake input.
127	FE_INT	IN	Interrupt input signal from Front-End L6316
128	F_XWE, SD_DQML	OUT	Flash memory write enable. Debug SDRAM/SRAM Lower DQM. 'L': enable, Lower select.
129	SD_DQMU	OUT	Debug SDRAM/SRAM Upper DQM 'L':upper select
130	SD_RXW	OUT	Debug SDRAM Read/Write 'L':write, 'H':read
131	CPU_WAIT	IN	CPU wait 'H' input
132	CE_FLASH	OUT	Flash memory Chip Enable 'L'
133	CPU_CE2	OUT	reserved
134	CPU_CE1	OUT	reserved
135	SD_XRAS	OUT	Debug SDRAM RAS 'L' Debug SRAM chip enable 'L'
136	VDD_3V3	-	3.3 V Power supply
137	VSS	-	Ground
138	CPU_RAS1	OUT	reserved
139	SD_XCAS	OUT	Debug SDRAM CAS 'L'
140	SD_XCS	OUT	Debug SDRAM Chip Select 'L'
141	CPU_D0		
142	CPU_D1	1	
143	CPU_D2	1	
144	CPU_D3	1 1/0	FLACIL Debug CDDAM/CDAM dete
145	CPU_D4	I/O	FLASH, Debug SDRAM/SRAM data
146	CPU_D5	1	
147	CPU_D6	1	
148	CPU_D7	1	
149	VDD_1V8	-	1.8 V Power supply
150	VSS	-	Ground
151	CPU_D8		
152	CPU_D9	1	
153	CPU_D10	1	
154	CPU_D11	-	FLACIL Debug CDDAM/CDAM dete
155	CPU_D12	I/O	FLASH, Debug SDRAM/SRAM data
156	CPU_D13	1	
157	CPU_D14	1	
158	CPU_D15	1	
159	VDD_3V3	-	3.3 V Power supply
160	VSS	-	Ground

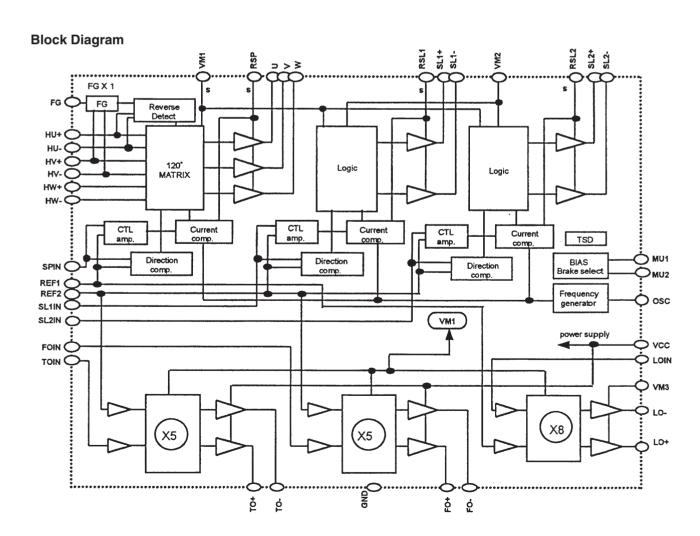
No.	Pin Name	Dir.	Pin Function	
161	CPU_A1			
162	CPU_A2			
163	CPU_A3			
164	CPU_A4			
165	CPU_A5			
166	CPU_A6	OUT	FLASH, Debug SDRAM/SRAM Address	
167	CPU_A7			
168	CPU_A8			
169	CPU_A9			
170	CPU_A10			
171	VDD_1V8	-	1.8 V Power supply	
172	VSS	-	Ground	
173	CPU_A11			
174	CPU_A12			
175	CPU_A13			
176	CPU_A14			
177	CPU_A15			
178	CPU_A16	OUT	FLASH, Debug SDRAM/SRAM Address	
179	CPU_A17	-		
180	CPU_A18			
181	CPU_A19			
182	CPU_A20			
183	CPU_A21			
184	VDD_3V3		3.3 V Power supply	
185	VSS		Ground	
186	XEXPE	OUT	reserved	
107	EE EDDOD	INI	Front-End L6316 stream interface.	
187	FE_ERROR	IN	ECC Error flag	
188	VSEL1	OUT	EURO(SCART) connector (BLINKING) output signal 'L' : RGB output disable 'H' : RGB output enable	
189	VSEL2	OUT	EURO(SCART) connector V/Y, R/C signal. 'L': VRGB output = YCGB 'H': VRGB output = VRGB	
190	FE_RST	OUT	Front-End L6316. Hardware reset output. 'L': reset	
191	SACD_XRST	OUT	reserved	
192	XMMUTE	OUT	reserved	
193	B_SYNC	OUT	reserved	
194	SDA	I/O	Front-End L6316 command interface I2C bus serial data line.	
195	SCL	OUT	Front-End L6316 command interface I2C bus serial clock line.	
196	B_WCLK	OUT	reserved	
197	TXD	OUT	UART(RS-232C) data output	
198	VDD_1V8	-	1.8 V Power supply	
199	VSS	-	Ground	
200	RXD	IN	UART(RS-232C) data input	

No.	Pin Name	Dir.	Pin Function	
201	XAMUTE	OUT	Output signal for analog audio output line muting. 'L' : muting	
202	TRIGIN	IN	Diagnostic Control Unit interface	
203	TRIGOUT	OUT	Diagnostic Control Unit interface	
204	DAC_XCS0	OUT	OUT Chip enable for audio DAC serial control. 'L': enable	
205	DAC_XCS1	OUT reserved		
206	FP_ACK	OUT Front Panel / DAC interface. Hand-shake (acknowledge) output 'H'.		
207	FP_SCK	OUT	Front Panel / DAC interface. Serial transfer clock output.	
208	FP_SI	IN	Front Panel interface. Serial transfer data input.	

## IC101: M63018FP (BTL DRIVER)-1

#### **Pin Arrangement**



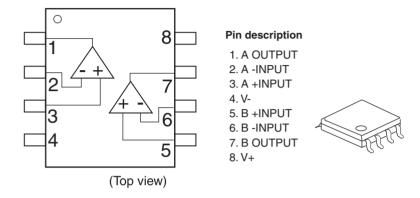


IC101: M63018FP (BTL DRIVER)-2

#### **Pin Function**

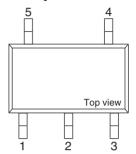
i iii i aiioti	011				
TERMINAL	SYMBOL	TERMINAL FUNCTION	TERMINAL	SYMBOL	TERMINAL FUNCTION
1	SL1IN	Slide control voltage input 1	4 2	osc	PWM carrier oscillation set
2	SL2IN	Slide control voltage input 2	41	MU1	mute / brake select terminal 1
3	VM2	Motor Power Supply 2 (for Slide)	40	LOIN+	Loading control input(+)
4	RSL2	Slide current sense 2	3 9	VM3	Power Supply3 (for Loading)
5	SL2+	Slide non-inverted output 2	38	MU2	mute / brake select terminal 2
6	SL2-	Slide inverted output 2	3 7	LO-	Loading inverted output
7	GND	GND	36	LO+	Loading non-inverted output
8	RSL1	Slide current sense 1	3 5	FO-	Focus inverted output
9	SL1+	Slide non-inverted output 1	3 4	FO+	Focus non-inverted output
10	SL1-	Slide inverted output 1	33	GND	GND
11	GND	GND	32	VCC	Power Supply (for FS ,TS)
1 2	W	Motor drive output W	3 1	TO+	Tracking non-inverted output
1 3	٧	Motor drive output V	30	TO-	Tracking inverted output
1 4	U	Motor drive output U	29	GND	GND
15	RSP	Spindle current sense	28	TOIN	Tracking control voltage input
16	HW-	HW- sensor amp. input	27	FOIN	Focus control voltage input
17	HW+	HW+ sensor amp. input	26	SPIN	Spindle control voltage input
18	HV-	HV- sensor amp. input	25	REF1	Reference voltage input1 (for Spindle,Loading)
1 9	HV+	HV+ sensor amp. input	24	FG	Frequency generator output
20	HU-	HU- sensor amp. input	23	REF2	Reference voltage input2(for SideEcous.Tracking)
21	HU+	HU+ sensor amp. input	22	VM1	Motor Power Supply 1 (for Spindle)
				•	

# Q401,Q402,Q403,Q404 NJM4580M-D (2-ch Ope. amp.)



# Q703: S-80130CLMC-JKM VOLTAGE DETECTOR (13.0V CMOS, Active L: out)

#### **Pin Layout**



Detection voltage: 3.0V +/-2%

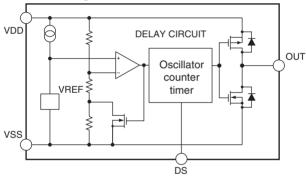
Delay time: 200ms typ.

#### **Pin Description**

No.	Symbol	Description
1	DS	ON/OFF switch for delay time
2	VSS	GND
3	NC <sup>*1</sup>	Non-connection
4	OUT	Voltage detection output pin
5	VDD	Voltage input pin

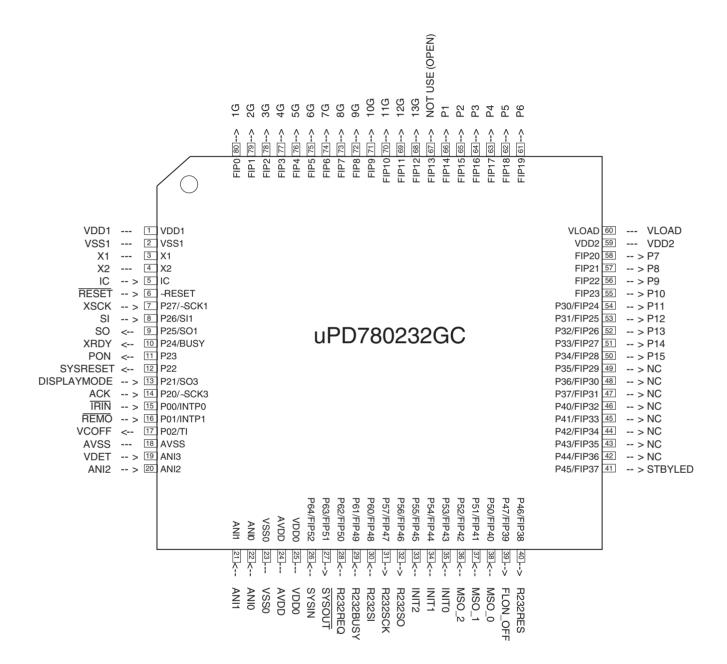
<sup>\*1.</sup> NC pin is electrically open.

# Block Diagram



#### MICROPROCESSOR TERMINAL DESCRIPTION

Q701: MPD780232GC

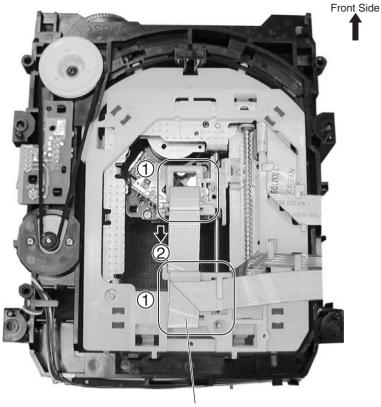


# MICROPROCESSOR TERMINAL DESCRIPTION

No.	PIN NAME	SIGNAL	I/O	DESCRIPTION	
	VDD1	VDD1		Power supply port	
	VSS1	VSS1		Ground port	
	X1	X1		Connect to clock oscillator of main micro processor	
	X2	X2		Connect to clock oscillator of main micro processor	
	IC	IC	I	Connect to VSS1	
	~RESET P27/~SCK1	~RESET XSCK	I	System reset input port  Clock output port for writing in FLASH ROM	
	P26/SI1	SI	I	Data input port for writing in FLASH ROM	
	P25/SO1	SO	0	Data output port for writing in FLASH ROM	
10	P24/BUSY	XRDY	0	XRDY output port	
11	P23	PON	0	POWER ON/OFF control output port to a system processor. "H": Power ON	
12	P22	SYSRESET	0	System reset control output port	
13	P21/SO3	DISPLAY_MOI		Exhibition mode. Active "L":Exhibition mode	
14	P20/~SCK3	ACK	I	ACK input port.	
15	P00/INTP0	~IRIN	I	IR remote control input port. Active "L": IR mode	
16	P01/INTP1	~REMO	I	Remote control signal input port. Active "L": Remote control mode	
17	P02/TI	VCOFF	О	Video circuit off control output port.	
18	AVSS	AVSS		Ground pin of A/D converter.	
19	ANI3	VDET	I	VDET input port	
20	ANI2	ANI2	I	Analog input port for A/D converter	
21	ANI1	ANI1	I	Analog input port for A/D converter	
22	ANI0	ANI0	I	Analog input port for A/D converter	
23	VSS0	VSS0		Ground pin	
24	AVDD	AVDD		Reference analog power supply of A/D converter. VDD1	
25	VDD0	VDD0	7	Power supply pin	
26	P64/FIP52	SYSIN	I	Input port for system buss	
27	P63/FIP51	~SYSOUT	0	Output port for system buss	
28 29	P62/FIP50 P61/FIP49	R232REQ R232BUSY	I	Open pin.	
30	P60/FIP48	R232SI	I	Open pin. Open pin.	
31	P57/FIP47	R232SCK	0	Open pin.	
32	P56/FIP46	R232SO	0	Open pin.	
33	P55/FIP45	INIT2	I	Initialized setting port of analog input 2	
34	P54/FIP44	INIT1	I	Initialized setting port of analog input 2	
35	P53/FIP43	INITO	I	Initialized setting port of analog input 0	
36	P52/FIP42	MSO_2	I	Model select input port 2	
37	P51/FIP41	MSO 1	I	Model select input port 1	
38	P50/FIP40	MSO_0	I	Model select input port 0	
39	P47/FIP39	FLON_OFF	0	FL filament control output port	
40	P46/FIP38	R232RES	0	Open pin.	
41	P45/FIP37	STBYLED	О	STANDBY LED control output port	
42	P44/FIP36	NC	0	Open pin.	
43	P43/FIP35	NC	О	Open pin.	
44	P42/FIP34	NC	0	Open pin.	
45	P41/FIP33	NC	0	Open pin.	
46	P40/FIP32	NC	0	Open pin.	
47	P37/FIP31	NC	0	Open pin.	
48	P36/FIP30	NC	0	Open pin.	
49	P35/FIP29	NC D15	0	Open pin.	
50	P34/FIP28	P15 P14	0	Segment (P15) control output port for FL tube	
52	P33/FIP27 P32/FIP26	P14 P13	0	Segment (P14) control output port for FL tube Segment (P13) control output port for FL tube	
53	P31/FIP25	P13	0	Segment (P12) control output port for FL tube	
54	P30/FIP24	P12	0	Segment (P12) control output port for FL tube	
55	FIP23	P10	0	Segment (P10) control output port for FL tube	
56	FIP22	P9	0	Segment (P9) control output port for FL tube	
57	FIP21	P8	0	Segment (P8) control output port for FL tube	
58	FIP20	P7	0	Segment (P7) control output port for FL tube	
59	VDD2	VDD2		Power supply port of FIP	
60	VLOAD	VLOAD		Connect to a pull down resistor	
61	FIP19	P6	0	Segment (P6) control output port for FL tube	
62	FIP18	P5	О	Segment (P5) control output port for FL tube	
63	FIP17	P4	0	Segment (P4) control output port for FL tube	
64	FIP16	P3	0	Segment (P3) control output port for FL tube	
65	FIP15	P2	0	Segment (P2) control output port for FL tube	
66	FIP14	P1	0	Segment (P1) control output port for FL tube	
67	FIP13	NOT USE	0	Open pin.	
68	FIP12	13G	0	Grid (13G) control output port for FL tube	
69	FIP11	12G	0	Grid (12G) control output port for FL tube	
70	FIP10	11G	0	Grid (11G) control output port for FL tube	
71	FIP9	10G	0	Grid (10G) control output port for FL tube	
72	FIP8	9G 8G	0	Grid (9G) control output port for FL tube Grid (8G) control output port for FL tube	
74	FIP7 FIP6	7G	0	Grid (8G) control output port for FL tube  Grid (7G) control output port for FL tube	
75	FIP5	6G	0	Grid (6G) control output port for FL tube	
76	FIP4	5G	0	Grid (5G) control output port for FL tube	
77	FIP3	4G	0	Grid (4G) control output port for FL tube	
78	FIP2	3G	0	Grid (3G) control output port for FL tube	
79	FIP1	2G	0	Grid (2G) control output port for FL tube	
80	FIP0	1G	0	Grid (1G) control output port for FL tube	

#### **Pickup Assy-S**

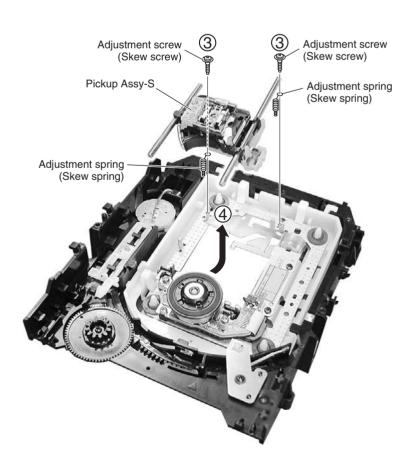
- ① Dislodge the flexible cable for the pickup from its packaged placement.
- 2 Remove the flexible cable for the pickup.



Flexible cable for the pickup

●Bottom View

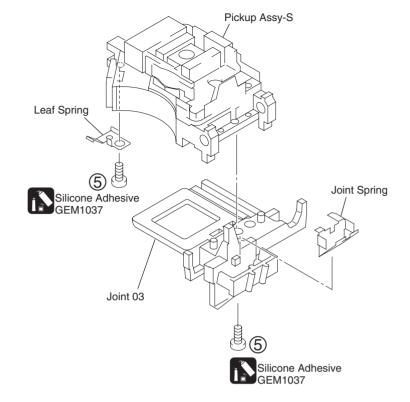
- (3) Remove the two adjustment screws and two adjustment springs.
- 4 Remove the Pickup Assy-S.

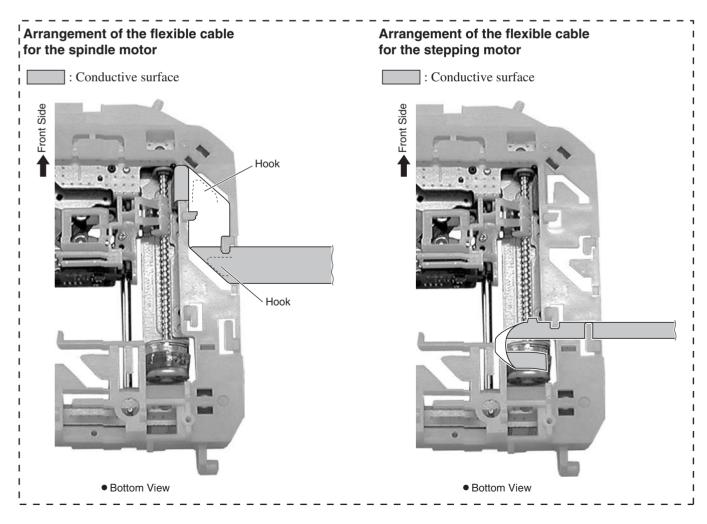


(5) Remove the two screws.

Note: The screws are secured with epoxy.

Make sure to apply epoxy after reattaching the screws.





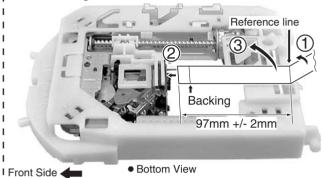
#### Arrangement of the flexible cable for the pickup

: Conductive surface

Note:

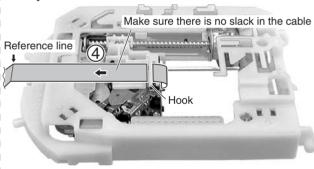
I Be sure to move the Pickup Assy-S to the innermost perimeter.

- Fold the flexible cable inward at the position of the reference line.
- Attach the flexible cable of the pickup to the connector.
- Fold the flexible cable of the pickup with the backing inward.



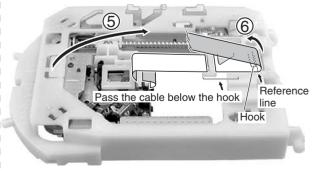


Pass the flexible cable through the hook not allowing any slack.



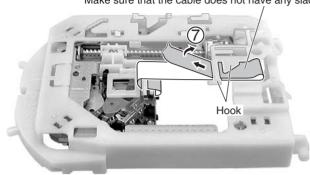


- 15 Fold the flexible cable as indicated in the photo.
- Hook the part folded in Step 1 to the hook.



Pass the flexible cable below the hook, and fold it back.

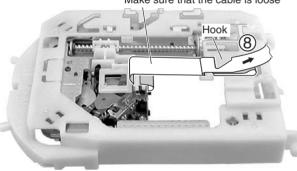
Make sure that the cable does not have any slack





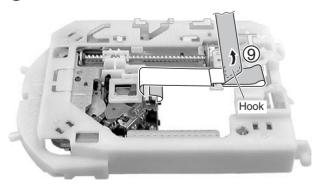
(8) Fold the flexible cable back at the hook.







9 Fold the flexible cable along the hook.



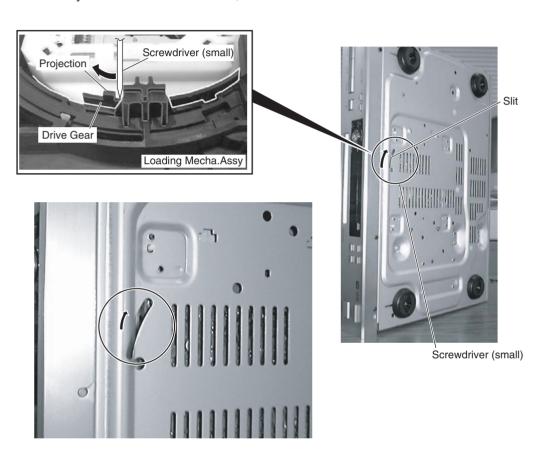


#### **Bonnet**

1. Remove the Bonnet by removing the six screws.

#### How to open the Tray when the power cannot be on

Insert a screwdriver (small) into the slit located at the bottom of the unit, and slide the projection of the Drive Gear in the Loading Mecha. Assy in the direction of the arrow, as

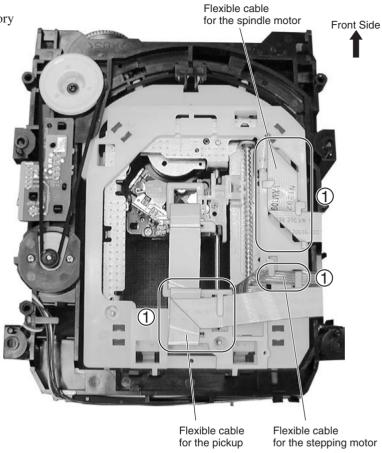


#### Remove the mechanism assembly

- 1. Remove three screws (Black 3TT+8B(BC) from bottom side. Remove the front panel.
- 2. Remove two screws on front bracket. And release the FFC (P71).
- 3. Remove two screws on the power switch PC board and wire holder.
- 4. Remove four screw (3SMS8W.SW+14B(BC)) from DVD mechanism.
- 5. Soldering the short lands. It is required because of static electricity protection.
- 6. Remove six FFCs and one connector assy.
- 7. Remove the DVD mechanism assembly.

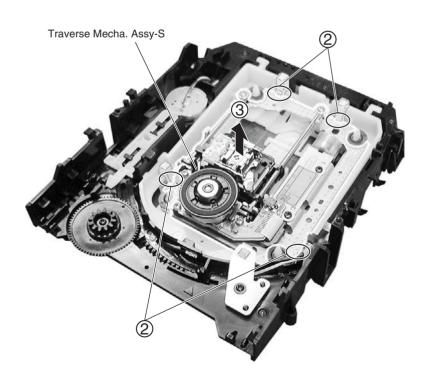
#### Traverse Mecha. Assy-S

① Dislodge the flexible cables from their factory placement.



**Bottom View** 

- 2 Remove the four hooks.
- 3 Remove the Traverse Mecha. Assy-S.

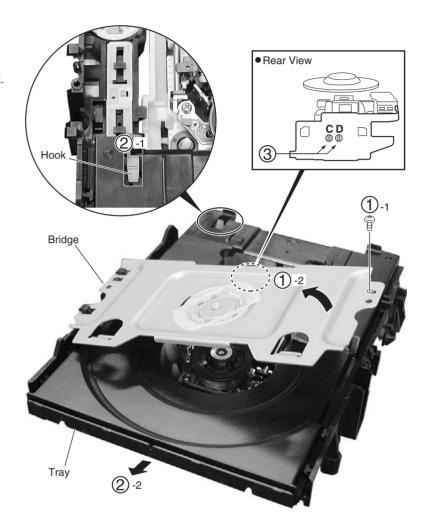


#### 1 Loading Mecha. Assy

- 1 Remove the bridge by removing the one screw.
- 2 Pull out the tray, then remove it by pressing the hook.
- 3 Short-circuit two points of C and D by soldering.

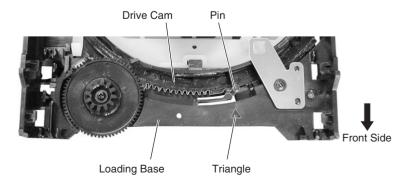
**Note:** After replacement, connect the flexible cable, then remove the soldered joint (open).

- Remove the four connectors from the Loading Mecha. Assy.
- (5) Remove the four screws that secure the Loading Mecha. Assy to the unit.



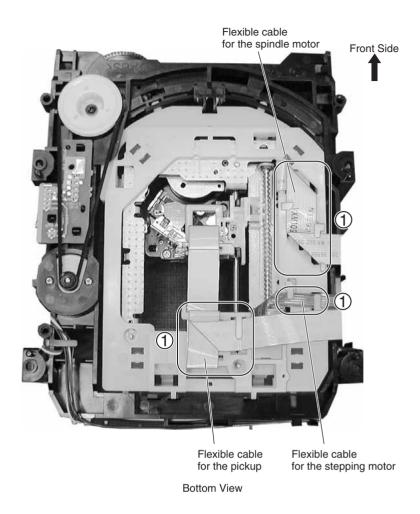
#### Note: when reinserting the Tray

When reinserting the Tray, first align the triangle printed on the Loading Base and the pin of the Drive Cam, then insert the Tray.



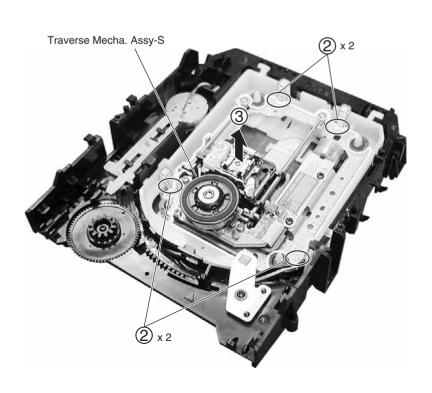
# 2 Traverse Mecha. Assy-S

① Dislodge the flexible cables from their factory placement.



2 Remove the four hooks.

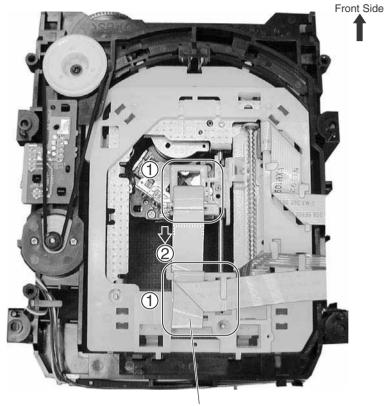
3 Remove the Traverse Mecha. Assy-S.



# 3 Pickup Assy-S

Note: The Pickup Assy-S can be removed without removing the Traverse Mecha. Assy-S. (shown as Step.)

- ① Dislodge the flexible cable for the pickup from its packaged placement.
- (2) Remove the flexible cable for the pickup.



Flexible cable for the pickup

Bottom View

3 Remove the two adjustment screws and two adjustment springs.

Adjustment screw (Skew screw)

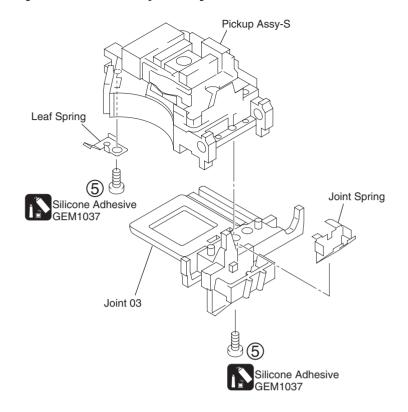
Pickup Assy-S

Adjustment spring (Skew spring)

Adjustment spring (Skew spring)

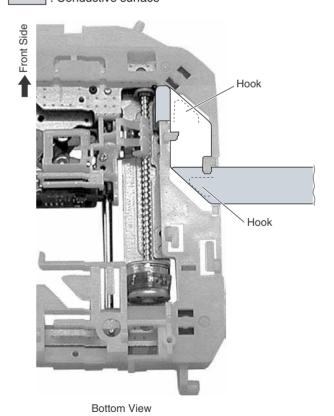
(5) Remove the two screws.

Note: The screws are secured with epoxy. Make sure to apply epoxy after reattaching



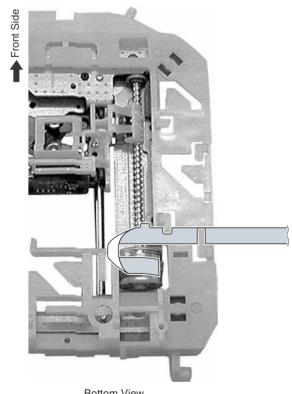
#### Arrangement of the flexible cable for the spindle motor

: Conductive surface



#### Arrangement of the flexible cable for the stepping motor

: Conductive surface



**Bottom View** 

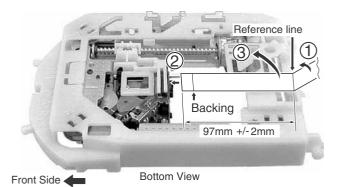
#### Arrangement of the flexible cable for the pickup

: Conductive surface

Note:

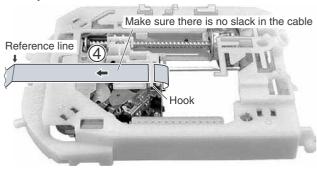
Be sure to move the Pickup Assy-S to the innermost perimeter.

- 1 Fold the flexible cable inward at the position of the reference line.
- 2 Attach the flexible cable of the pickup to the connector.
- 3 Fold the flexible cable of the pickup with the backing inward.



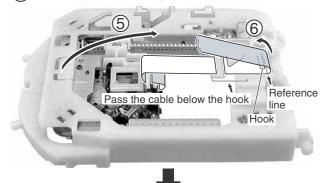


Pass the flexible cable through the hook not allowing any slack.



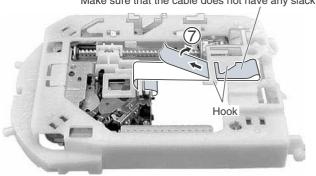


- (5) Fold the flexible cable as indicated in the photo.
- 6 Hook the part folded in Step 1 to the hook.



Pass the flexible cable below the hook, and fold it back.

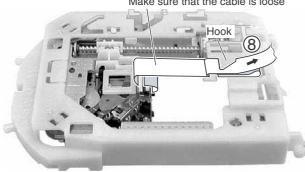
Make sure that the cable does not have any slack





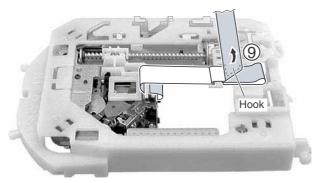
8 Fold the flexible cable back at the hook.







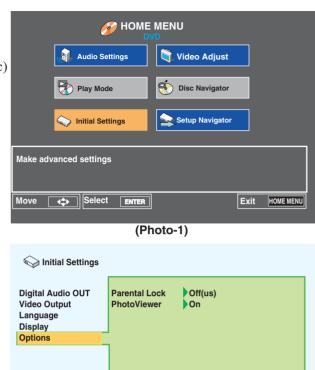
9 Fold the flexible cable along the hook.



#### FIRMWARE DOWN LOADING-1

## Confirm the Regional code and Firmware version.

- 1. Connect the TV monitor to the DV-SP501.
- 2.Turn ON the power switch and standby switch ON. (No Disc)
- 3. Press the "**SETUP**" key on the front panel. Appear a HOME MENU. (Photo-1)
- 4. Select "Initial Settings" menu and press "ENTER".
- 5. Select "Options" menu, and press the "DISPLAY" button.
- Appear regional code and firmware ROM number.
   Confirm the regional cord and firmware version.
   When close the menu, press "RETURN" button of the unit. (Photo-2)



(Photo-2)

Exit HOME MENU

REGION 2 ROM VERSION : 1.146\_SgiBsc

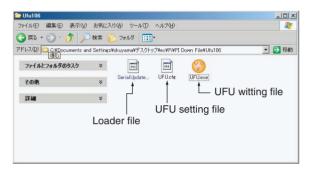
Select ENTER

Regional code ROM Version

#### **UPGRADE FIRMWARE-2**

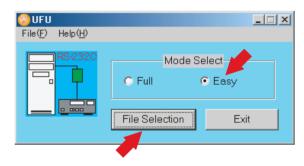
## **Using for Window tool**

- 1 Writing the firmware as below.
  - 1. Prepare three data on a hard disk of the personal computer.

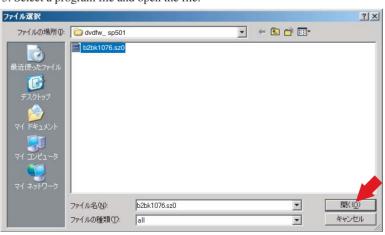


- 2. Start the UFU.exe file.

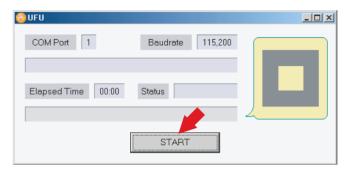
  Double click the UFU.exe.
- 3. Select "Easy" mode.
- 4. Select "File Selection" mode.



5. Select a program file and open the file.



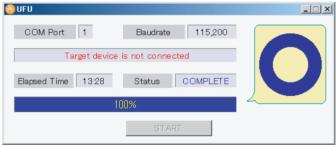
- 6. Connect the JIG (0J13), FFC and connection cable (RS-232C straight type).
- 7. Turn the power switch and standby "ON" of the DV-SP501. No disc condition.
- 8. Press the start key.



9. Wait for about 10 minutes.



10. Complete the upgrade firmware.



Next step.

Please continue work ID number and ID data set up.

#### ID NUMBER AND DATA SETTING

**Caution:** It is necessory to enter individual ID number and ID data to each player when you repair it.

**Note:** When previous ID number and ID data, such as a factory present

ID number and ID data, are maintained, the unit enters ID

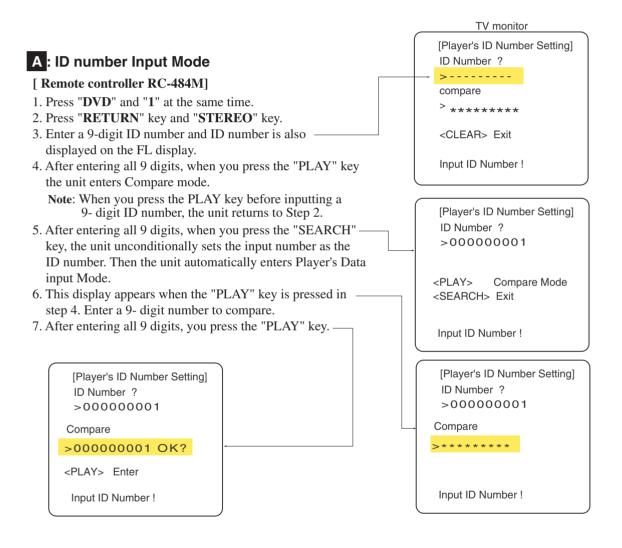
Number Confirmation Mode when the above keys are pressed.

However, if only an ID number is maintained, the unit enters ID Data Input Mode.

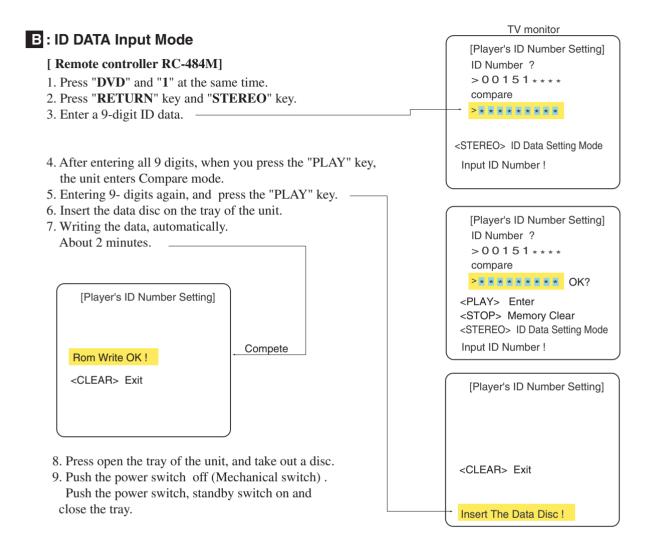
**Preparations:** (1) Remote controller RC-484M

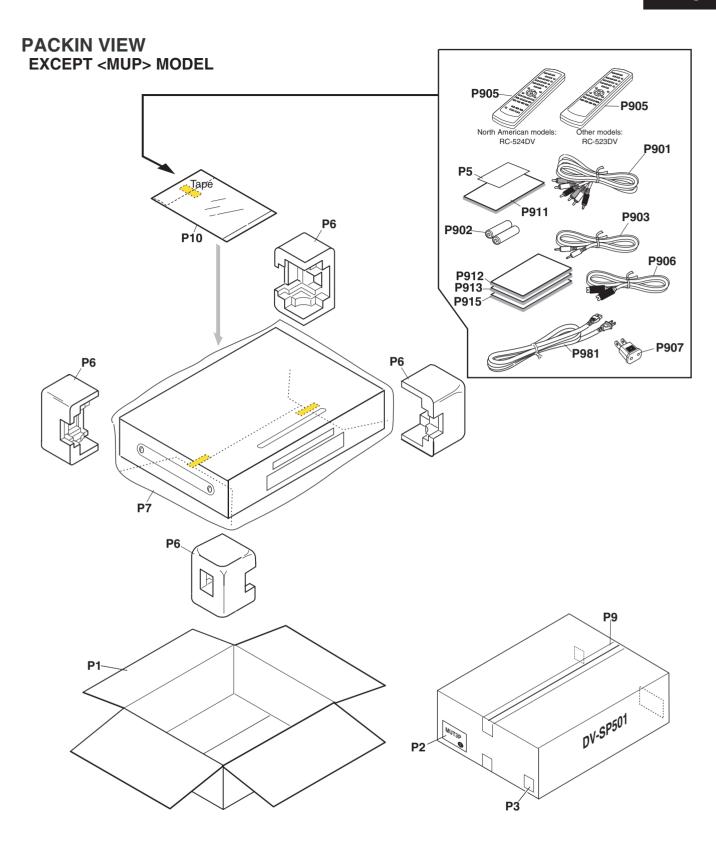
(2)TV monitor

(3) ID Data DVD Disc. (Part No. 0R118)

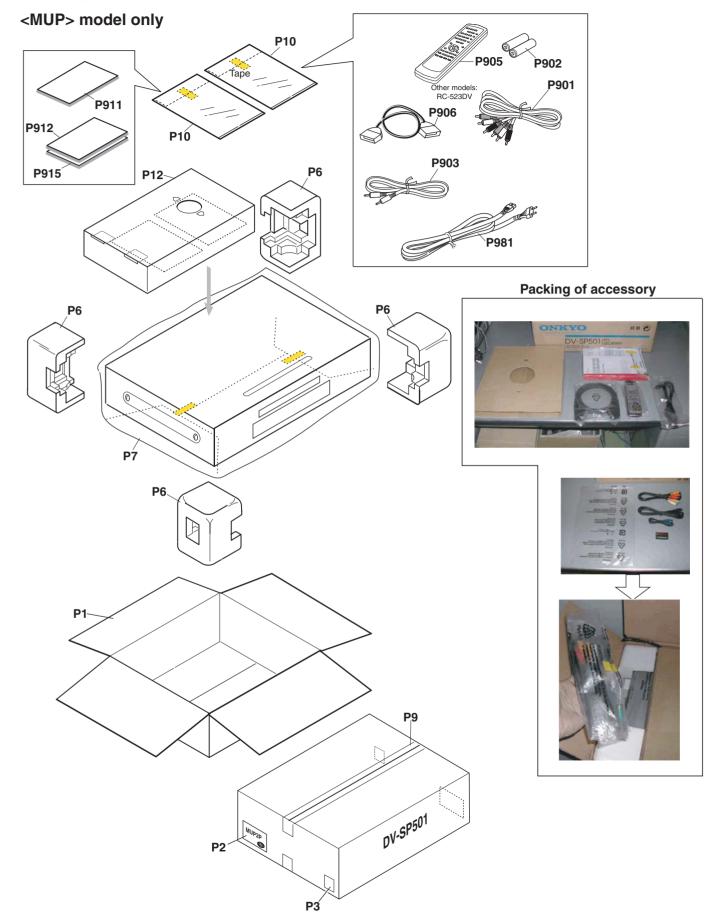


#### ID NUMBER AND DATA SETTING





# **PACKING VIEW**



# **EXPLODED VIEW PARTS LIST**

					!: Safety part
REF. NO	. PART NAME		DESCRIPTION	PART NO.	REMARK
A1	CHASSIS			27100425B	
A3	LEG		LEG	27175316C	
A5	CUSHION			28141494	
A10	HOLDER		KGLS-10RT	27190428A	
A11	SCREW		3TTB+8B	838130088	
A11a	WASHER		W3*10F(BC)	87643010	
A12	HOLDER		KGLS-18RT	27190657	
A13	HOLDER		KGLS-22RT	27190772	
A15	LABEL(DVD2)		KGLS-22K1	29362648	
A16	CLAMP		HL-18-0	27301394	
A19	F BRACKET		AS, Included konb-cap <b><b></b></b>	27111328A	N
A19	F BRACKET		AS, Included konb-cap <b>S</b>	27111326A 27111330A	N
A19	F BRACKET		AS, Included konb-cap <s></s>	27111330A 27111329A	N
A19 A22	CLEAR PLT		<b></b>	28191991	N N
A22 A22					N N
	CLEAR PLT		<g>, <s></s></g>	28191992	IN
A23	TAPE		2 (TTD : 0D (DC)	29110161	
A27	SCREW		2.6TTB+8B(BC)	838426088	
A30	KNOB		(POWER), <b><b></b></b>	28325497A	
A30	KNOB		(POWER), <b><g></g></b>	28325499A	
A30	KNOB		(POWER), <b><s></s></b>	28325547A	
A32	SCREW		3P+10FN(BC)	82143010	
A35	KNOB		(CRS) <b><b></b></b>	28326029	
A35	KNOB		(CRS) < G > < S >	28326030	
A51	DOOR		<b></b>	28148540	N
A51	DOOR		<g></g>	28148542	N
A51	DOOR		<\$>	28148541	N
A55	COVER		< <b>B</b> >	28184864	N
A55	COVER		<g></g>	28184866	N
A55	COVER		<s></s>	28184865	N
A56	SCREW		3TTB+8B(BC) <b><b></b></b>	838430088	
A56	SCREW		3TTB+8B(UN) < G > < S >	838930088	
A57	CUSHION		HIME 0.5*120*10	28141542	N
A41	F PANEL		<except b="" mup=""></except>	27212522	N
A41	F PANEL		<b mup=""></b>	27212524	N
A41	F PANEL		<g mut=""></g>	27212526	N
A41	F PANEL		<g muk=""> <g mur=""></g></g>	27212526	N
A41	F PANEL		<s mup=""></s>	27212525	N
A41	F PANEL		<s mus=""></s>	27212523	N
A43	BADGE		<b></b>	28135244	2,
A43	BADGE		<g> <s></s></g>	28135245	
A44	FACET			28198906	
A46	SCREW		3TTB+8B(BC)	838430088	
A47	REAR PANEL		<b mdc="" mdd,b=""></b>	27123120A	N
A47	REAR PANEL		<b mut=""></b>	27123120A 27123123A	N
A47	REAR PANEL		<b mus=""> <s mus=""></s></b>	27123123A 27123122A	N
A47 A47	REAR PANEL		<b mup=""> <s mup=""></s></b>	27123122A 27123118A	N N
					IN
A47	REAR PANEL		<g mut=""> <g muk=""></g></g>	27123123A	N
A47	REAR PANEL		<g mur=""></g>	27123121A	N
A48	SCREW		3TTB+8B(BC) Except <b mup=""></b>	838430088	
A 40	CCDEW		<smup></smup>	020420000	
A48	SCREW		3TTB+8B(BC) < <b>B MUP</b> >	838430088	
F1	FUSE		1.6A-T/UL-ST2 <b><mdd> <mdc></mdc></mdd></b>	252252	
F1 or	FUSE	!	1.6A-TSC	252147	
F1	FUSE	!	1.6A-SE-TL250V Except <mdd></mdd>	252273	
			<mdc></mdc>		
F1 or	FUSE	!	1.6A-SE-EAK IEC	252073	
P501	FFC		NCFC5-301512	2045301512	N
P502	FFC		NCFC5-110612	2045110612	N
P503	FFC		NCFC5-180712	2045180712	N
P701	FFC		NCFC5-182012	2045182012	
P702	SOCKET AS		NSAS-10P1160	20044391025	
P901A	CORE		NFY-25 BLACK	230945	
P910	WIRE TIE		BINDER(CLAMPER)UL	260208	
S731	JOY STICK		NPS-115-S673	25035710	
<b>Z</b> 1	DVD Main circuit PC board assy		DB-VPB501	24150042	N
Z10	DVD Mechanism assy		DB-VLD501-007	24801018	N

Z12	HOLDER	(ML)	27191201	N
Z13	HOLDER	(MR)	27191202	N
Z14	SCREW	3SMS8W.SW+14B(BC)	801433	
Z91A	SCREW	4TTC+8C(BC)	830440089	
U1	Output terminal PC board assy	NAAR-7997-1A <b><mdd> <mdc></mdc></mdd></b>	1H505597-1A	N
U1	Output terminal PC board assy	NAAR-7997-1B <b><mup></mup></b>	1H505597-1B	N
U1	Output terminal PC board assy	NAAR-7997-1C <b><mut> <muk></muk></mut></b>	1H505597-1C	N
U1	Output terminal PC board assy	NAAR-7997-1D <b><mus></mus></b>	1H505597-1D	N
U1	Output terminal PC board assy	NAAR-7997-1E <b><mur></mur></b>	1H505597-1E	N
U2	Display circuit PC board assy	NADIS-7998-1A <b><mdd> <mdc></mdc></mdd></b>	1H505598-1A	N
U2	Display circuit PC board assy	NADIS-7998-1B <b><mup></mup></b>	1H505598-1B	N
U2	Display circuit PC board assy	NADIS-7998-1C <b><mut> <muk></muk></mut></b>	1H505598-1C	N
U2	Display circuit PC board assy	NADIS-7998-1D <b><mus></mus></b>	1H505598-1D	N
U2	Display circuit PC board assy	NADIS-7998-1E <b><mur></mur></b>	1H505598-1E	N
U3	Standby switch PC board assy	NADIS-7999-1A <b><mdd> <mdc></mdc></mdd></b>	1H505599-1A	N
U3	Standby switch PC board assy	NADIS-7999-1B <b><mup></mup></b>	1H505599-1B	N
U3	Standby switch PC board assy	NADIS-7999-1C <b><mut> <muk></muk></mut></b>	1H505599-1C	N
U3	Standby switch PC board assy	NADIS-7999-1D <b><mus></mus></b>	1H505599-1D	N
U3	Standby switch PC board assy	NADIS-7999-1E <b><mur></mur></b>	1H505599-1E	N
U4	Power switch PC board assy	NASW-8000-1A <b><mdd> <mdc></mdc></mdd></b>	1H505500-1A	N
U4	Power switch PC board assy	NASW-8000-1B <b><mup></mup></b>	1H505500-1B	N
U4	Power switch PC board assy	NASW-8000-1C <b><mut> <muk></muk></mut></b>	1H505500-1C	N
U4	Power switch PC board assy	NASW-8000-1D <b><mus></mus></b>	1H505500-1D	N
U4	Power switch PC board assy	NASW-8000-1E <b><mur></mur></b>	1H505500-1E	N
U5	Inlet terminal PC board assy	NAPS-8001-1A <b><mdd> <mdc></mdc></mdd></b>	1H505501-1A	N
U5	Inlet terminal PC board assy	NAPS-8001-1B <b><mup></mup></b>	1H505501-1B	N
U5	Inlet terminal PC board assy	NAPS-8001-1D <b><mus></mus></b>	1H505501-1D	N
U5	Inlet terminal PC board assy	NAPS-8001-1C <b><mut> <muk></muk></mut></b>	1H505501-1C	N
U5	Inlet terminal PC board assy	NAPS-8001-1E <b><mur></mur></b>	1H505501-1E	N
U6	Support PC board	NAETC-8003-1A <b><mdd> <mdc></mdc></mdd></b>	1H505503-1A	N
U6	Support PC board	NAETC-8003-1B <b><mup></mup></b>	1H505503-1B	N
U6	Support PC board	NAETC-8003-1C <b><mut> <muk></muk></mut></b>	1H505503-1C	N
U6	Support PC board	NAETC-8003-1D <b><mus></mus></b>	1H505503-1D	N
U6	Support PC board	NAETC-8003-1E <b><mur></mur></b>	1H505503-1E	N
U20	Power supply assy unit	NGPS-0040-100-120V <b><mdd></mdd></b>	24150040	N
020	Tower suppry assy unit	<mdc></mdc>	271JUU <del>1</del> U	11
U20	Power supply assy unit	NGPS-0041-100-240V <b>Except</b>	24150041	N
020	Tower suppry assy unit	<mdd> <mdc></mdc></mdd>	2 <del>1</del> 1300 <b>1</b> 1	14

<B>: Black color model
<S>: Silver color model
<G>: Golden color model
<MDD>: North American area
<MDC>: Canadian area
<MUT>: Southeast Asia area
<MUK>: Korea area
<MUS>: South America area

<**MUP>:** European area <**MUR>:** China area

# PACKING VIEW PARTS LIST !: Safety part

REF. NO	. PART NAME	Ι	DESCRIPTION	PART NO.	REMARK
P1	CARTON		<b mdc,b="" mdd,b="" mut,b<br="">MUS&gt;</b>	29054056	N
P1	CARTON		<b mup=""></b>	29054057	N
P1	CARTON	<	<g mut=""> <g mur=""> <g muk=""></g></g></g>	29054060	N
P1	CARTON	<	<s mup=""></s>	29054058	N
P1	CARTON	<	<s mus=""></s>	29054059	N
P2	LABEL	(	(RE) <b><b mdc=""></b></b>	29363451	N
P2	LABEL	(	(RE) <b><b mut=""></b></b>	29363448	N
P2	LABEL	(	(RE) < <b>B MUS</b> >	29363449	N
P2	LABEL	(	(RE) <b><muk></muk></b>	29363450	N
P3	UPC LABEL	<	<b mdc="" mdd,b=""></b>	29363445	N
P3	EAN LABEL	<	<b mup=""> <b mus=""> <b mut=""></b></b></b>	29363442	N
P3	EAN LABEL	<	<g mut=""> <g muk=""> G MUR&gt;</g></g>	29363444	N
P3	EAN LABEL	<	<mup> <s mus=""></s></mup>	29363443	N
P4	LABEL	(	(POP) <b><b mdc="" mdd,b=""></b></b>	29363447	N
P5	WRNTY CARD	<	<b mdc="" mdd,b=""></b>	29365090A	
P6	PAD	(.	(AS)	29092099B	N
P7	POLY BAG	6	550 x 500	29100037-1A	
P9	PP TAPE	V	W48 OPP TAPE	29110148	
P10	POLY BAG	3	350*250 <b><b mup=""> <smup></smup></b></b>	29100097-1A	
P12	PAD	Γ	ΓΟΡ <b><b mup=""> <s mup=""></s></b></b>	29092108A	N
P901	PIN CORD AS	F	RCA3P(YWR)	2010379	
P902	BATTERY	F	R6/AA(UM-3)	3010054	
P903	PLUG CORD	3	3.5-MINI PLUG (RI)	2010200	
P905	REMO CON	F	RC-524DV <b><mdd> <mdc></mdc></mdd></b>	24140524	N
P905	REMO CON		RC-523DV Except <mdd> MDC&gt;</mdd>	24140523	N
P906	CORD AS	(	(S CORD) Except <mup></mup>	2010380	
P906 or	CORD AS	Τ	ГРХ3000	2010360	
P906	RGB CORD	Ŋ	YAF11-1015 <b><mup></mup></b>	2010411	
P906 or	RGB CORD	Ŋ	YAF11-0697	2010368	
P907	CV PLUG	! (	CV-K-2 <b><mus> <mut></mut></mus></b>	25055911	
P911	INS MANUAL	E	En	29343485	N
P912	INS MANUAL	J	U2FrEs <b><mdc> <mus> <mup></mup></mus></mdc></b>	29343487	N
P913	INS MANUAL	J	U2CtCs <b><mut> <mur></mur></mut></b>	29343488	N
P915	INS MANUAL	J	U4ItDeNlSv <b><mup></mup></b>	29343490A	N
P981	AC CORD		AC-UC-2 <b><mdd> <mdc></mdc></mdd></b>	253296HIT	
P981	AC CORD	! A	AS-CEE <mup> <mus> <mut></mut></mus></mup>	253299HIT	
P981	AC CORD		AS-KS <muk> <mur></mur></muk>	253346VOL	
P981 or	AC CORD	! A	AS-CCC <b><muk> <mur></mur></muk></b>	253363HIT	

<B>: Black color model
<S>: Silver color model
<G>: Golden color model
<MDD>: North American area
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<MUT>: Southeast Asia area
<MUK>: Korea area
<MUS>: South America area
<MUP>: European area

<MUR>: China area

# PRINTED CIRCUIT BOARD PARTS LIST

# **U1: OUTPUT TERMINAL PC BOARD NAAR-7997**

	U1 : OUTPUT TERMINAL PC BOARD NAAR-7997					
	T PART NAME	DESCRIPTION	PART NO.	REMARK		
C101	C-CERA C	CK725F1E-104Z1	332161040R1			
C221	VR C	CE04W6.3V-470M(VR)	394624717			
C222	C-CERA C	CK725B1C-104K1	332121045R1			
C223	VR C	CE04W6.3V-470M(VR)	394624717			
C224	VR C	CE04W6.3V-1000M(VR)	394621027	Except <mup></mup>		
C225	VR C	CE04W6.3V-470M(VR)	394624717	Except <mup></mup>		
C226	VR C	CE04W6.3V-470M(VR)	394624717	Except <mup></mup>		
C352	C-CERA C	CK725F1E-104Z1	332161040R1			
C353	VR C	CE04W6.3V-100M(VR)	394621017			
C357	C-CERA C	CK725B1C-104K1	332121045R1			
C358	C-CERA C	CC725CH1H-220J1	342102204R1			
C360	C-CERA C	CK725F1E-104Z1	332161040R1			
C361	C-CERA C	CK725F1E-104Z1	332161040R1			
C362	VR C	CE04W6.3V-100M(VR)	394621017			
C363	C-CERA C	CK725F1H-223Z1	332152230R1			
C364	C-CERA C	CK725F1H-223Z1	332152230R1			
C401	VX C	CE04W16V-47M(VX)	393344707			
C402	VX C	CE04W16V-47M(VX)	393344707			
C403	TF C	ECQ-B50V-681J	374726814			
C404	TF C	ECQ-B50V-681J	374726814			
C405	TF C	ECQ-B50V-152J	374721524			
C406	TF C	ECQ-B50V-152J	374721524			
C407	TF C	ECQ-B50V-102J	374721024			
C408	TFC	ECQ-B50V-102J	374721024			
C409	C-CERA C	CC725CH1H-470J1	342104704R1			
C410	C-CERA C	CC725CH1H-470J1	342104704R1			
C410	VR C					
C411	VR C	CE04W6.3V-220M(VR)	394622217			
		CE04W6.3V-220M(VR)	394622217			
C413	VXC	CE04W50V-47M(VX)	393384707			
C414	VXC	CE04W50V-47M(VX)	393384707			
C415	VXC	CE04W50V-47M(VX)	393384707			
C419	VXC	CE04W50V-47M(VX)	393384707			
C420	VR C	CE04W6.3V-470M(VR)	394624717			
C485	VR C	CE04W16V-220M(VR)	394642217			
C486	VR C	CE04W16V-220M(VR)	394642217			
C601	VR C	CE04W16V-100M(VR)	394641017	<mup></mup>		
C602	C-CERA C	CK725F1E-104Z1	332161040R1	<mup></mup>		
C603	VR C	CE04W16V-100M(VR)	394641017	<mup></mup>		
C612	VR C	CE04W6.3V-470M(VR)	394624717	<mup></mup>		
C613	VR C	CE04W6.3V-470M(VR)	394624717	<mup></mup>		
C614	VR C	CE04W6.3V-470M(VR)	394624717	<mup></mup>		
C615	VR C	CE04W6.3V-470M(VR)	394624717	<mup></mup>		
C901	C-CERA C	CK725F1E-104Z1	332161040R1			
C902	VR C	CE04W16V-220M(VR)	394642217			
C903	C-CERA C	CK725F1E-104Z1	332161040R1			
C904	VR C	CE04W6.3V-220M(VR)	394622217			
C905	C-CERA C	CK725F1E-104Z1	332161040R1			
C906	VR C	CE04W16V-220M(VR)	394642217			
C907	C-CERA C	CK725F1E-104Z1	332161040R1			
C908	VR C	CE04W16V-1000M(VR)	394641027			
C909	C-CERA C	CK725F1E-104Z1	332161040R1			
C910	VR C	CE04W16V-1000M(VR)	394641027			
C911	VR C	CE04W16V-100M(VR)	394641017			
C914	C-CERA C	CK725F1E-104Z1	332161040R1			
C920	VR C	CE04W16V-10M(VR)	394641007			
C921	VR C	CE04W16V-220M(VR)	394642217			
C922	VR C	CE04W16V-220M(VR)	394642217			
CN901	SOCKET	NSCT-30P2421	25052524	N		
			-			

CN901 or	SOCKET	NSCT-30P1741	25051954	
CN901 or	SOCKET	NSCT-30P2227	25052330	
CN902	SOCKET	NSCT-11P2402	25052505	N
CN902 or	SOCKET	NSCT-11P1822	25051935	
CN902 or	SOCKET	NSCT-11P2208	25052311	N
CN903	SOCKET	NSCT-18P2409	25052512	
CN903 or	SOCKET	NSCT-18P1729	25051942	
CN903 or	SOCKET	NSCT-18P2215	25052318	
D101	ZENER D	UDZS5.1B	224550510R2	
D101 or	ZENER D	UDZ5.1B	224490510R2	
D460	C-DIODE	1SS352	223234R2	
D460 or	C-DIODE	1SS355	223269R2	
D601	C-DIODE	1SS226	223266R2	<mup></mup>
D602	C-DIODE	1SS226	223266R2	<mup></mup>
D901	ZENER D	UDZS5.1B	224550510R2	VIVIOI >
D901 D901 or	ZENER D	UDZ5.1B	224490510R2	
D920	ZENER D	UDZS11B	224551100R2	
D921	C-DIODE	1SS352	223234R2	
D921 or	C-DIODE	1SS355	223269R2	
D922	C-DIODE	1SS352	223234R2	
D922 or	C-DIODE	1SS355	223269R2	
D923	C-DIODE	1SS352	223234R2	
D923 or	C-DIODE	1SS355	223269R2	
D924	C-DIODE	1SS352	223234R2	
D924 or	C-DIODE	1SS355	223269R2	
L351	EMIFIL	BK1608LM182-T	230958R1	
L351 or	EMIFIL	FBM-10-160808-202T	230968R1	
L352	EMIFIL	BK1608LM182-T	230958R1	
L352 or	EMIFIL	FBM-10-160808-202T	230968R1	
L353	EMIFIL	BK1608LM182-T	230958R1	
L353 or	EMIFIL	FBM-10-160808-202T	230968R1	
L354	EMIFIL	BK1608LM182-T	230958R1	
L354 or	EMIFIL	FBM-10-160808-202T	230968R1	
L601	EMIFIL	BK1608LM182-T	230958R1	<mup></mup>
P104	SOCKET	NSCT-7P2241	25052344	NIOI >
P104 or				
	SOCKET	NSCT-7P1676	25051889	
P104 or	SOCKET	NSCT-7P2425	25052528	AATTD.
P601	SOCKET	NSCT-21P2176, SCART	25052279	<mup></mup>
P601 or	SOCKET	NSCT-21P2602, SCART	25052706	<mup></mup>
P701A	SOCKET	NSCT-18P2409	25052512	
P701Aor	SOCKET	NSCT-18P1729	25051942	
P701Aor	SOCKET	NSCT-18P2215	25052318	
P351A	SOCKET AS	NSAS-4P1147	2009990786UL	N
P901	SOCKET AS	NSAS-30P1102	2004C193060UL	
P201	PIN JACK, S-Terminal	NPJ-5PDBY456	25045656	
P203	PIN JACK, Video out	NPJ-3PDGLR454	25045654	Except <mup></mup>
P350	PIN JACK, Coaxial out	NPJ-1PDOR369	25045548	
P352	PIN JACK , RI	NPJ-2PDB400	25045589	
P401	PIN JACK, Audio out	NPJ-3PDBRW455	25045655	
Q351	PHT CP, Optical out	TOTX179L	24120102	
Q352	IC	TC74VHCU04FT	22274004HR2O	
Q401	IC	NJM4580M-D	22241448R2	
Q402	IC	NJM4580M-D	22241448R2	
Q403	IC	NJM4580M-D	22241448R2	
Q403 Q404	IC IC	NJM4580M-D	22241448R2	
Q404 Q601	IC IC	TC4053BF	222840531R2O	<mup></mup>
_				<iviuf></iviuf>
Q405	TR	HN1C03F-B	2216141R2	
Q406	TR	HN1C03F-B	2216141R2	
Q407	TR	HN1C03F-B	2216141R2	
Q460	TR	DTA114YKA	2216480R2	
Q460 or	TR	RN2407	2216360R2	
Q460 or	TR	KRA107S	2216350R2	
Q463	TR	DTC114YKA	2216470R2	

0.460		D.V. 105	224 52 50 72	
Q463 or	TR	RN1407	2216260R2	
Q463 or	TR	KRC107S	2216340R2	
Q602	TR	KRC102S	2216190R2	<mup></mup>
Q602 or	TR	RN1402	2214470R2	<mup></mup>
Q603	TR	KRC102S	2216190R2	<mup></mup>
Q603 or	TR	RN1402	2214470R2	<mup></mup>
Q604	TR	KTC3875-Y	2216174R2	<mup></mup>
Q604 or	TR	KTC3875-GR	2216175R2	<mup></mup>
Q604 or	TR	2SC2712-Y	2213144R2	<mup></mup>
Q604 or	TR	2SC2712-GR	2213145R2	<mup></mup>
Q605	TR	KTC3875-Y	2216174R2	<mup></mup>
Q605 or	TR	KTC3875-GR	2216175R2	<mup></mup>
Q605 or	TR	2SC2712-Y	2213144R2	<mup></mup>
Q605 or	TR	2SC2712-T 2SC2712-GR	2213144R2 2213145R2	<mup></mup>
_				
Q606	TR	KTA1504-GR	2216185R2	<mup></mup>
Q606 or	TR	2SA1162-Y	2214374R2	<mup></mup>
Q606 or	TR	2SA1162-GR	2214375R2	<mup></mup>
Q607	TR	HN1A01F-GR	2215915R2	<mup></mup>
Q608	TR	HN1A01F-GR	2215915R2	<mup></mup>
Q920	TR	KTC3875-GR	2216175R2	
Q920 or	TR	2SC2712-GR	2213145R2	
R1001	C-CARBON R	RN72K1J-000JE	435030004R1	
R1002	C-CARBON R	RN72K1J-000JE	435030004R1	
R1003	C-CARBON R	RN72K1J-000JE	435030004R1	
R1004	C-CARBON R	RN72K1J-000JE	435030004R1	
R1005	C-CARBON R	RN72K1J-000JE	435030004R1	
R1006	C-CARBON R	RN72K1J-000JE	435030004R1	
R1007	C-CARBON R	RN72K1J-000JE	435030004R1	
R1008	C-CARBON R	RN72K1J-000JE	435030004R1	
R1009	C-CARBON R	RN72K1J-000JE	435030004R1	
R101	C-CARBON R	RN72K1J-103JE	435031034R1	
R102	C-CARBON R	RN72K1J-470JE	435034704R1	
R1010	C-CARBON R	RN72K1J-000JE	435030004R1	
R103	C-CARBON R	RN72K1J-470JE	435034704R1	
R104	C-CARBON R	RN72K1J-470JE	435034704R1	
R104	C-CARBON R	RN72K1J-470JE RN72K1J-470JE	435034704R1	
R107	C-CARBON R			
		RN72K1J-470JE	435034704R1	
R108	C-CARBON R	RN72K1J-470JE	435034704R1	
R115	C-CARBON R	RN72K1J-000JE	435030004R1	
R115	C-CARBON R	RN72K1J-000JE	435030004R1	Except <mup></mup>
R116	C-CARBON R	RN72K1J-000JE	435030004R1	<mup></mup>
R117	C-CARBON R	RN72K1J-103JE	435031034R1	
R118	C-CARBON R	RN72K1J-103JE	435031034R1	
R119	C-CARBON R	RN72K1J-103JE	435031034R1	
R121	C-CARBON R	RN72K1J-470JE	435034704R1	
R122	C-CARBON R	RN72K1J-470JE	435034704R1	
R123	C-CARBON R	RN72K1J-000JE	435030004R1	
R124	C-CARBON R	RN72K1J-470JE	435034704R1	
R125	C-CARBON R	RN72K1J-470JE	435034704R1	
R126	C-CARBON R	RN72K1J-470JE	435034704R1	
R127	C-CARBON R	RN72K1J-470JE	435034704R1	
R134	C-CARBON R	RN72K1J-103JE	435031034R1	
R135	C-CARBON R	RN72K1J-103JE	435031034R1	
R136	C-CARBON R	RN72K1J-103JE	435031034R1	
R137	C-CARBON R	RN72K1J-103JE	435031034R1	
R221	C-CARBON R	RN72K1J-750JE	435037504R1	
R222	C-CARBON R	RN72K1J-750JE	435037504R1	
R223	C-CARBON R	RN72K1J-750JE RN72K1J-750JE	435037504R1	
R224	C-CARBON R	RN72K1J-103JE	435031034R1	
R225	C-CARBON R	RN72K1J-750JE RN72K1J-750JE	435037504R1	Except <mup></mup>
R227	C-CARBON R	RN72K1J-750JE RN72K1J-750JE	435037504R1 435037504R1	Except <mup></mup>
R229	C-CARBON R	RN72K1J-750JE RN72K1J-750JE	435037504R1 435037504R1	Except <mup></mup>
R231	C-CARBON R	RN72K1J-750JE RN72K1J-000JE	435030004R1	Except \MIOI >
11431	C-CARDON K	N11/2IXIJ=000JE	TJJUJUUU†I <b>X</b> I	

R232	C-CARBON R	RN72K1J-000JE	435030004R1	
R233	C-CARBON R	RN72K1J-000JE	435030004R1	
R234	C-CARBON R	RN72K1J-000JE	435030004R1	Except <mup></mup>
R235	C-CARBON R	RN72K1J-000JE	435030004R1	Except <mup></mup>
R236	C-CARBON R	RN72K1J-000JE	435030004R1	Except <mup></mup>
R351	C-CARBON R	RN72K1J-000JE	435030004R1	
R353	C-CARBON R	RN72K1J-474JE	435034744R1	
R354	C-CARBON R	RN72K1J-331JE	435033314R1	
R355	C-CARBON R	RN72K1J-181JE	435031814R1	
R356	C-CARBON R	RN72K1J-181JE	435031814R1	
R357	C-CARBON R	RN72K1J-471JE	435034714R1	
R401	C-CARBON R	RN72K1J-152JE	435031524R1	
R402	C-CARBON R	RN72K1J-152JE	435031524R1	
R405	C-CARBON R	RN72K1J-000JE	435030004R1	
R406	C-CARBON R	RN72K1J-000JE	435030004R1	
R407	C-CARBON R	RN72K1J-103JE	435031034R1	
R408	C-CARBON R	RN72K1J-103JE	435031034R1	
R409	C-CARBON R	RN72K1J-103JE	435031034R1	
R410	C-CARBON R	RN72K1J-103JE	435031034R1	
R411	C-CARBON R	RN72K1J-152JE	435031524R1	
R412	C-CARBON R	RN72K1J-152JE	435031524R1	
R413	C-CARBON R	RN72K1J-223JE	435032234R1	
R414	C-CARBON R	RN72K1J-223JE	435032234R1	
R415	C-CARBON R	RN72K1J-223JE	435032234R1	
R416	C-CARBON R	RN72K1J-223JE	435032234R1	
R417	C-CARBON R	RN72K1J-223JE RN72K1J-223JE	435032234R1	
R418	C-CARBON R	RN72K1J-223JE RN72K1J-223JE	435032234R1	
R419	C-CARBON R	RN72K1J-152JE	435031524R1	
R420	C-CARBON R	RN72K1J-152JE	435031524R1	
R420 R421	C-CARBON R	RN72K1J-132JE RN72K1J-223JE	435032234R1	
R421 R422	C-CARBON R	RN72K1J-223JE RN72K1J-223JE	435032234R1	
R422 R423	C-CARBON R	RN72K1J-152JE RN72K1J-152JE	435031524R1	
R424	C-CARBON R	RN72K1J-152JE RN72K1J-152JE	435031524R1	
R424 R427	C-CARBON R	RN72K1J-192JE RN72K1J-103JE	435031034R1	
R427 R428	C-CARBON R	RN72K1J-103JE RN72K1J-103JE	435031034R1	
R429	C-CARBON R	RN72K1J-103JE RN72K1J-103JE	435031034R1 435031034R1	
R429 R430	C-CARBON R	RN72K1J-103JE RN72K1J-103JE	435031034R1 435031034R1	
R430 R431	C-CARBON R	RN72K1J-471JE	435034714R1	
R431 R432	C-CARBON R	RN72K1J-471JE RN72K1J-471JE	435034714R1	
R432 R433	C-CARBON R	RN72K1J-101JE RN72K1J-101JE	435031014R1	
R433	C-CARBON R	RN72K1J-101JE RN72K1J-101JE	435031014R1 435031014R1	
R434 R435	C-CARBON R	RN72K1J-101JE RN72K1J-101JE	435031014R1	
R433	C-CARBON R	RN72K1J-101JE RN72K1J-104JE	435031014R1 435031044R1	
R442	C-CARBON R	RN72K1J-104JE RN72K1J-104JE	435031044R1 435031044R1	
		RN72K1J-104JE RN72K1J-271JE		
R443	C-CARBON R		435032714R1	
R444 R445	C-CARBON R C-CARBON R	RN72K1J-271JE RN72K1J-222JE	435032714R1 435032224R1	
R446 R447	C-CARBON R C-CARBON R	RN72K1J-222JE RN72K1J-101JE	435032224R1 435031014R1	
R448	C-CARBON R	RN72K1J-101JE	435031014R1	
R449	C-CARBON R	RN72K1J-222JE	435032224R1	
R450	C-CARBON R	RN72K1J-222JE	435032224R1	
R452	C-CARBON R	RN72K1J-222JE	435032224R1	
R453	C-CARBON R	RN72K1J-101JE	435031014R1	
R454	C-CARBON R	RN72K1J-222JE	435032224R1	
R455	C-CARBON R	RN72K1J-104JE	435031044R1	
R456	C-CARBON R	RN72K1J-104JE	435031044R1	
R457	C-CARBON R	RN72K1J-104JE	435031044R1	
R458	C-CARBON R	RN72K1J-154JE	435031544R1	
R459	C-CARBON R	RN72K1J-154JE	435031544R1	
R460	C-CARBON R	RN72K1J-154JE	435031544R1	
R461	C-CARBON R	RN72K1J-154JE	435031544R1	
R462	C-CARBON R	RN72K1J-102JE	435031024R1	

R463	C-CARBON R	RN72K1J-102JE	435031024R1	
R481	NF CARBON R	R25J-2.2	415470224	
R482	NF CARBON R	R25J-2.2	415470224	
R601	C-CARBON R	RN72K1J-182JE	435031824R1 < <b>MU</b>	<b>P</b> >
R602	C-CARBON R	RN72K1J-222JE	435032224R1 < <b>MU</b>	<b>P</b> >
R603	C-CARBON R	RN72K1J-222JE	435032224R1 <b><mu< b=""></mu<></b>	<b>P</b> >
R604	C-CARBON R	RN72K1J-103JE	435031034R1 <b><mu< b=""></mu<></b>	<b>P</b> >
R605	C-CARBON R	RN72K1J-103JE	435031034R1 <b><mu< b=""></mu<></b>	<b>P</b> >
R606	C-CARBON R	RN72K1J-472JE	435034724R1 <b><mu< b=""></mu<></b>	<b>P</b> >
R607	C-CARBON R	RN72K1J-122JE	435031224R1 < <b>MU</b>	<b>P</b> >
R608	C-CARBON R	RN72K1J-223JE	435032234R1 <b><mu< b=""></mu<></b>	<b>P</b> >
R609	C-CARBON R	RN72K1J-563JE	435035634R1 < <b>MU</b>	<b>P</b> >
R610	C-CARBON R	RN72K1J-680JE	435036804R1 <b><mu< b=""></mu<></b>	<b>P</b> >
R612	METAL O R	RS1/2WBJ-330	443523314 <b><mu< b=""></mu<></b>	<b>P</b> >
R613	METAL O R	RS1/2WBJ-330	443523314 <b><mu< b=""></mu<></b>	<b>P</b> >
R614	C-CARBON R	RN72K1J-102JE	435031024R1 < <b>MU</b>	<b>P</b> >
R615	C-CARBON R	RN72K1J-103JE	435031034R1 <b><mu< b=""></mu<></b>	<b>P</b> >
R616	C-CARBON R	RN72K1J-101JE	435031014R1 <b><mu< b=""></mu<></b>	<b>P</b> >
R617	C-CARBON R	RN72K1J-101JE	435031014R1 <b><mu< b=""></mu<></b>	<b>P</b> >
R618	C-CARBON R	RN72K1J-750JE	435037504R1 <b><mu< b=""></mu<></b>	<b>P</b> >
R619	C-CARBON R	RN72K1J-750JE	435037504R1 <b><mu< b=""></mu<></b>	<b>P</b> >
R620	C-CARBON R	RN72K1J-750JE	435037504R1 <b><mu< b=""></mu<></b>	<b>P</b> >
R621	C-CARBON R	RN72K1J-750JE	435037504R1 <b><mu< b=""></mu<></b>	<b>P</b> >
R622	C-CARBON R	RN72K1J-000JE	435030004R1 <b><mu< b=""></mu<></b>	T>
R623	C-CARBON R	RN72K1J-000JE	435030004R1 <b><mu< b=""></mu<></b>	T>
R624	C-CARBON R	RN72K1J-000JE	435030004R1 <b><mu< b=""></mu<></b>	T>
R625	C-CARBON R	RN72K1J-000JE	435030004R1 <b><mu< b=""></mu<></b>	T>
R626	C-CARBON R	RN72K1J-000JE	435030004R1 <b><mu< b=""></mu<></b>	T>
R902	C-CARBON R	RN72K1J-222JE	435032224R1	
R920	C-CARBON R	RN72K1J-221JE	435032214R1	
R1012	C-CARBON R	RN72K1J-000JE	435030004R1	
R1013	C-CARBON R	RN72K1J-000JE	435030004R1	
R1015	C-CARBON R	RN72K1J-000JE	435030004R1	
R1016	C-CARBON R	RN72K1J-000JE	435030004R1	
R1017	C-CARBON R	RN72K1J-000JE	435030004R1	
R1018	C-CARBON R	RN72K1J-000JE	435030004R1	
R1019	C-CARBON R	RN72K1J-000JE	435030004R1	
R1020	C-CARBON R	RN72K1J-000JE	435030004R1	

# U2: DISPLAY CIRCUIT PC BOARD NADIS-7999

UZ : DIS	UZ: DISPLAT CIRCUIT PC BOARD NADIS-1999				
CIRCUI	Γ PART NAME	DESCRIPTION	PART NO.	REMARK	
Q701	IC	MPD780232GC-092-8BT	22242005R3	N	
Q703	IC	S-80130CLMC-JIP-T2	22241924R2		
Q702	FL TUBE	HNV-13SS12T	212238		
Q704	TR	KRA103S	2216230R2		
Q704 or	TR	RN2403	2214540R2		
C701	ELECT C	CE04W6.3V-100M	355721019		
C702	C-CERA C	CK725F1E-104Z1	332161040R1		
C703	C-CERA C	CK725F1E-104Z1	332161040R1		
C704	C-CERA C	CK725F1E-104Z1	332161040R1		
C705	ELECT C	CE04W50V-22M	355782209		
C706	ELECT C	CE04W6.3V-100M	355721019		
D701	C-DIODE	1SS352	223234R2		
D701 or	C-DIODE	1SS355	223269R2		
D702	ZENER D	UDZS5.6B	224550560R2		
D703	C-DIODE	1SS352	223234R2		
D703 or	C-DIODE	1SS355	223269R2		
JL703A	WIRE HOL	NSCT-4P875	25051088		
P701B	SOCKET	NSCT-18P2436	25052539		
P701Bor	SOCKET	NSCT-18P1687	25051900		
P701Bor	SOCKET	NSCT-18P2252	25052355		
P731	SOCKET	NSCT-7P2241	25052344		

P731 or	SOCVET	NSCT-7P1676	25051990	
P731 or	SOCKET SOCKET	NSCT-7P1070 NSCT-7P2425	25051889 25052528	
Q705	REMO SENS	RPM7138-H9	241348 N	
R701		RN72K1J-103JE	435031034R1	
R701	C-CARBON R C-CARBON R	RN72K1J-103JE RN72K1J-000JE	435030004R1	
R702	C-CARBON R	RN72K1J-000JE RN72K1J-101JE	435031014R1	
R703	C-CARBON R	RN72K1J-101JE RN72K1J-000JE	435030004R1	
R704 R705	C-CARBON R	RN72K1J-000JE RN72K1J-000JE	435030004R1 435030004R1	
R705	C-CARBON R	RN72K1J-000JE RN72K1J-000JE	435030004R1 435030004R1	
R700	C-CARBON R	RN72K1J-000JE RN72K1J-000JE	435030004R1 435030004R1	
R707	C-CARBON R	RN72K1J-000JE RN72K1J-000JE	435030004R1 435030004R1	
R710	C-CARBON R	RN72K1J-000JE RN72K1J-103JE	435031034R1	
R711	C-CARBON R	RN72K1J-105JE RN72K1J-105JE	435031054R1 435031054R1	
R711	C-CARBON R	RN72K1J-103JE RN72K1J-473JE	435034734R1	
R712	C-CARBON R	RN72K1J-473JE RN72K1J-224JE	435032244R1	
R719	C-CARBON R	RN72K1J-123JE RN72K1J-103JE	435031034R1	
R713	C-CARBON R	RN72K1J-103JE RN72K1J-103JE	435031034R1 435031034R1	
R726	C-CARBON R	RN72K1J-000JE	435030004R1	
R727	C-CARBON R	RN72K1J-000JE RN72K1J-000JE	435030004R1 435030004R1	
R727	C-CARBON R	RN72K1J-102JE	435031024R1	
R734	C-CARBON R	RN72K1J-000JE	435030004R1	
R736	C-CARBON R	RN72K1J-000JE	435030004R1	
R738	C-CARBON R	RN72K1J-000JE	435030004R1	Except <mup></mup>
R739	C-CARBON R	RN72K1J-102JE	435031024R1	<mup></mup>
R740	C-CARBON R	RN72K1J-000JE	435030004R1	WICT >
R741	C-CARBON R	RN72K1J-102JE	435031024R1	<mut> <mus></mus></mut>
R742	C-CARBON R	RN72K1J-000JE	435030004R1	<mup> <mus></mus></mup>
R743	C-CARBON R	RN72K1J-102JE	435031024R1	<mdd> <mdc></mdc></mdd>
R751	C-CARBON R	RN72K1J-272JE	435032724R1	
R752	C-CARBON R	RN72K1J-391JE	435033914R1	
R753	C-CARBON R	RN72K1J-471JE	435034714R1	
R754	C-CARBON R	RN72K1J-821JE	435038214R1	
R755	C-CARBON R	RN72K1J-102JE	435031024R1	
R756	C-CARBON R	RN72K1J-182JE	435031824R1	
R758	C-CARBON R	RN72K1J-272JE	435032724R1	
R759	C-CARBON R	RN72K1J-391JE	435033914R1	
R760	C-CARBON R	RN72K1J-471JE	435034714R1	
R761	C-CARBON R	RN72K1J-821JE	435038214R1	
R762	C-CARBON R	RN72K1J-102JE	435031024R1	
R763	C-CARBON R	RN72K1J-182JE	435031824R1	
R764	C-CARBON R	RN72K1J-392JE	435033924R1	
R765	C-CARBON R	RN72K1J-103JE	435031034R1	
R766	C-CARBON R	RN72K1J-272JE	435032724R1	
R767	C-CARBON R	RN72K1J-391JE	435033914R1	
R768	C-CARBON R	RN72K1J-471JE	435034714R1	
R769	C-CARBON R	RN72K1J-821JE	435038214R1	
R770	C-CARBON R	RN72K1J-102JE	435031024R1	
R771	C-CARBON R	RN72K1J-182JE	435031824R1	
R772	C-CARBON R	RN72K1J-392JE	435033924R1	
R773	C-CARBON R	RN72K1J-103JE	435031034R1	
S701	PUSH SW	NPS-111-S681	25035718	
S702	PUSH SW	NPS-111-S681	25035718	
S703	PUSH SW	NPS-111-S681	25035718	
S704	PUSH SW	NPS-111-S681	25035718	
S705	PUSH SW	NPS-111-S681	25035718	
S706	PUSH SW	NPS-111-S681	25035718	
S707	PUSH SW	NPS-111-S681	25035718	
S708	PUSH SW	NPS-111-S681	25035718	
S709	PUSH SW	NPS-111-S681	25035718	
S710	PUSH SW	NPS-111-S681	25035718	
S712	PUSH SW	NPS-111-S681	25035718	
S713	PUSH SW	NPS-111-S681	25035718	
S714	PUSH SW	NPS-111-S681	25035718	

S715	PUSH SW	NPS-111-S681	25035718
X701	CERA LOCK	CST5.00MGW	3010242
Q702A	CUSHION	t3*10*25	28141513

### **U3: STANDBY SWITCH PC BOARD NADIS-7999**

CIRCUIT	T PART NAME	DESCRIPTION	PART NO.	REMARK
D721	LED	SEL4110R, LED	225290	
Q708	TR	DTC114YKA	2216470R2	
Q708 or	TR	KRC107S	2216340R2	
Q708 or	TR	RN1407	2216260R2	
R757	C-CARBON R	RN72K1J-392JE	435033924R1	
R779	C-CARBON R	RN72K1J-471JE	435034714R1	
S716	PUSH SW	NPS-111-S681	25035718	

### **U4: POWER SWITCH PC BOARD NASW-8000**

CIRCUIT PART NAME		DESCRIPTION	PART NO.	REMARK
C991	IS C	! RE275V-103M	3500196S	_
S991	PUSH SW	! NPS-111-L666P	25035703	
S991 or	P SW	! NPS-111-L512P	25035550	
JL703B	WIRE HOL	NSCT-4P875	25051088	

### **U5: INLET TERMINAL PC BOARD NAPS-8001**

CIRCUIT PART NAME		DESCRIPTION	PART NO.	REMARK
P981A	AC INLET	! NPLG-2P956	25056006	<mdd,mdc></mdd,mdc>
P981A	AC INLET	! NPLG-2P977	25056027	<mup,mut,mus,mu< th=""></mup,mut,mus,mu<>
P982B	SOCKET AS	NSAS-2P0921	2009990661UL	

<mbody><MDD>: North American area<MDC>: Canadian area<MUT>: Southeast Asia area<MUK>: Korea area<MUS>: South America area<MUP>: European area

<MUR>: China area



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